<110> Cheikh, Nordine
Liu, Jingdong
Peschke, Virginia M.

<120> Nucleic Acid Molecules And Other Molecules Associated With The Phosphogluconate Pathway

<130> 04983.0031.US01/38-21(15365)B

<160> 699

<210> 1
<211> 233
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<213> Zea mays

<400> 1

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attgaatgag gcaatctctg agtatgagac ttcagaaaac aatgactcgg gaagctaccg 120

cagattattt tatttggcat tgcctccatc agtctaccca tcagtatgcg agatgataag 180

atcatattgc atgagtccat cttcacacac cggttggaca agggttattg ttg 233

<210> 2
<211> 180
<212> DNA
<213> Zea mays

<400> 2

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caggggcagc ggggagcgag caccgtcagc atcacggtcg tcggcgcctc cggcgacctc 120

gccaagaaga agatcttccc ggccctcttc gccttgttct acgagggctg gctcccggag 180

<210> 3
<211> 137
<212> DNA
<213> Zea mays

<400> 3

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ttacctaaag attaacaaca agattcctgg tctcggtatg cgactagata ggagtaactt 120

gaatctccat tatgccg 137

<210> 4
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4

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aatcgcataa tatttgagaa gccatttggc tttgatgcac tttcttccca taggctgaca 120

caatatcttc tttcaaactt tcaggaaaag caaatatata gaattganca tctactagga 180

aggaatcnca gtnaaaatcc tncaggttta agggtttcaa annnagnttt tgagccacct 240

tngagnngna cntnnnnnga nna 263

<210> 5
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5

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tgangcanna nancattagc atgcanancc agagtggttc tagtaatccg gtgctgctag 120

aggntgggaa ctagtgaatg gcatatcgag cgaagatcta gcttcggcac tgaatncccc 180

ttagcaatan aggcangcca tgtgnctgaa actngtcact ctctattgtn gtgcttggcg 240

cttntgggga tcttgctaa 259

<210> 6
<211> 284
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6

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acacaatatc ttctttcaaa ctttcaggaa aagcanatat atagaattga tcanctacta 120

ggaaggaatc ncattgnaaa tcttacagtt tnaaggtttt caaatctagt ttttgagcca 180

ctttggagtc gtacttanat aagataatgt agcaggncat ttatcagagg ncttggctgt 240

gcatcctggg aagntattcn ntggctatgg gatnatccgt ganc 284

<210> 7
<211> 253
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7

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nnnnnnnnnn nnnnnnnnnn nnngaagcaa aanaanatta gcatcaaaac cagagtggtt 120

ctagtaatcc ggngctgcta gaggatggga actagtnaat ggcatatcga gcgaagatct 180

agcttcggca ctgaatcccc cttagcaaga gaggcaggaa atgtgcctga aactgggtca 240

ctctctattg ttg 253

<210> 8
<211> 137
<212> DNA
<213> Glycine max

<400> 8

ccaggcagta tataagacat ggacagttga tattctcaga agattttggc actgaaggac 60

gtggcgggta ctttgaccat tatggtatca tgagagacat tatgcagaat catttacttc 120

aaatactagc actcttt 137

<210> 9
<211> 287
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 9

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tggttctagt aattcagtgc tgctagaaga tggaaactag tgaatggcat atcgagcgaa 120

gatctagctt cggctctgaa tccccccttag caaganangc aggaaatgtg cctganactg 180

ggtcactctc tattgtggtg cttggngctt ctggtgatct tgctaagaag aagacatttc 240

ctgcactttt ccacctatac ctggcaggga ttcttaccac cagatga 287

<210> 10
<211> 251
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 10

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tgctgctaga agatggaaac tagtgaatgg catatcgagc gaagatctag cttcggctct 120

gaatcccccc agcaagagag gcaggaaatg tgcctgaaac tgggtcactc tctattgtgg 180

tgcttggtgc ttctggtgat cttgctaaga agaagacatt tcctgcactt ttccacctat 240

acctgngnta c 251

<210> 11
<211> 193
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11

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aggatgggaa ctagtgaatg gcatatcgag cgaagatcta gcttcggcac tgaatccccc 120

ttagcaagat atgcaggaan tgtgcctgaa actgggtcac tctctattgt tgtgcttggc 180

gcttctgggg atc 193

<210> 12
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 12

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gaagggcggc tgcattatcc gtgcgaggtt ccttgatagg atcaagagcg cgtacgacag 120

gaatcctgag ctcgccaatg gcgcagccat ttgaggaatt ggttggtatg agcagggatg 180

ttttctgctt tgggtgattt ctctctgtgg gttatctttc cttttactat tgttatcttt 240

atgcttctag atccaagtcg agtacttcga ataatgctgt actgtatggt tggcaagtga 300

agaacattgt gtagcttc 318

<210> 13
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 13

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acctcgagtc caaggacgcc tcgatcgtag gagcggccac cgacagctcg gcggcctgct 120

gcaccgtcca cttccctgtc cctttcatcc cggtcttgtc aaggaccttg tccaccaggt 180

agccatcgcc atgctcgtcc ttgatgccaa agatgtcggc cgtgatctcn atcaagaagc 240

tcaggagctc gcccttgttc cactcggaga acacctggtg cagctcactg ttggtgagct 300

taccgaccga cttgagaacg tcgtatgcct nggaaatcaa ctgcatatcg gcatactcga 360

ttccgttggt gaaccatttt nacaaaantt ncccgatnca nctttngcca agtacgtnaa 420

acaaangggc cacttttaa ggggccttta anaaancncc tttnnng 467

<210> 14
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 14

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ccatctctgt gtacaacagg acaacctcca aggtggacga gaccgtgcag cgtgccaagg 120

cagaaggaaa ccttcccgtc tacggcttcc atgaccccgc gtcctttgtg aagtccattc 180

agaagccacg ggtggtgatc atgctcgtca aggccggcgc gccagttgac cagaccatcg 240

cgacgctcgc agctcacttg gagcagggcg actgcatcat cgatgggggg aacgagtggt 300

acgagaacac ggagaggagg gagaaggcca tggaggagcg cggcctnctg tatcttggca 360

tgggtgtctc tggaggaaag gagggtgccc gcaacggccc gtccttgatg 410

<210> 15
<211> 449
<212> DNA
<213> Zea mays

<400> 15

cccacgcgtc cgcccacgcg ttcgggtggt ttgacggtgc tggcatcgcc aattcaactc 60

cgcatctgca tcggcagcgc gccagctcca tagtgtagga ggagatggcg ctcacaagaa 120

tcggtcttgc tggccttgcg gtcatggggc agaaccttgc cctcaacatt gcagagaaag 180

ggttccccat ctctgtgtac aacaggacaa ccttcaaggt ggacgagacc gtgcagcgtg 240

ccaaggcaga aggaaacctt cccgtctacg gcttccatga ccccgcgtcc tttgtgaagt 300

ccattcagaa gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcca gttgaccaga 360

ccatcgcgac gctcgcagct cacttggagc agggcgactg catcatcgat agggggaacg 420

agtggtacga gaacacggag aggagggag 449

<210> 16
<211> 410
<212> DNA
<213> Zea mays

<400> 16

ggcactttcc ctgcctgatt ggcgatttaa gcggtggggg agggaaggcc gatggtcagt 60

gaaagagagt aggtggacgg acggtgctgg catcgccaat tcaactccgc atctgcatcg 120

gcagcgcgcc agctccatag tgtaggagga gatggcgctc acaagaatcg gtcttgctgg 180

ccttgcggtc atggggcaga accttgccct caacattgca gagaaagggt tccccatctc 240

tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg cagcgtgcca aggcagaagg 300

aaaccttccc gtctacggct tccatgaccc cgcgtccttt gtgaagtcca ttcagaagcc 360

acgggtggtg atcatgctcg tcaaggccgg cgcgccagtt gaccagacca 410

<210> 17
<211> 409
<212> DNA
<213> Zea mays

<400> 17

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gcgcgccagc tccatagtgt aggaggagga gatggcgctc acaagaatcg gtcttgctgg 120

ccttgcggtc atggggcaga accttgccct caacattgca gagaaagggt tccccatctc 180

tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg cagcgtgcca aggcagaagg 240

aaaccttccc gtctacggct tccatgaccc cgcgtccttt gtgaactcca ttcagaagcc 300

acgggtggtg atcatgctcg tcaaggccgg cgcgccagtt gaccagacca tcgcgacgct 360

cgcagctcac ttggagcagg gcgactgcat catcgaatgg gggaacgag 409

<210> 18
<211> 420
<212> DNA
<213> Zea mays

<400> 18

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gctccatagg aggagatggc gctcacaaga atcggtcttg ctggccttgc ggtcatgggg 120

cagaaccttg ccctcaacat tgcagagaaa gggttcccca tctctgtgta caacaggaca 180

acctccaagg tggacgagac cgtgcagcgt gccaaggcag aaggaaacct tcccgtctac 240

ggcttccatg accccgcgtc ctttgtgaag tccattcaga agccacgggt ggtgatcatg 300

ctcgtcaagg ccggcgcgcc agttgaccag accatcgcga cgctcgcagc tcacttggag 360

cagggcgact gcatcatcga taggggggaac gagtggtacg aggacacgga gaggagggag 420

<210> 19
<211> 403
<212> DNA
<213> Zea mays

<400> 19

agcggacgcg tgggggacgg acggtgctgg catcgccaat tcaactccgc atctgcatcg 60

gcagcgcgcc agctccatag tgtaggagga gatggcgctc acaagaatcg gtcttgctgg 120

ccttgcggtc atggggcaga accttgccct caacattgca gagaaagggt tccccatctc 180

tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg cagcgtgcca aggcagaagg 240

aaaccttccc gtctacggct tccatgaccc cgcgtccttt gtgaagtcca ttcagaagcc 300

acgggtggtg atcatgctcg tcaaggccgg cgcgccagtt gaccagacca tcgcgacgct 360

cgcagctcac tttgagcagg gcgactgcat catcgatggg ggg 403

<210> 20
<211> 433
<212> DNA
<213> Zea mays

<400> 20

ggcactttcc ctgcctgatt ggcgatttat agcggtgggg gagggaaggc cgatggtcag 60

ggaaagagag taggtggacg gacggtgctg gcatcgccaa ttcaactccg catctgcatc 120

ggcagcgcgc cagctccata ggaggagatg gcgctcacaa gaatcggtct tgctggcctt 180

gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc catctctgtg 240

tacaacagga caacctccaa ggtggacgag accgtgcagc gtgccaaggc agaaggaaac 300

cttcccgtct acggcttcca tgaccccgcg tcctttgtga agtccattca gaagccacgg 360

gtggtgatca tgctcgtcaa ggccggcgcg ccagttgacc agaccatcgc gacgctcgca 420

gctcacttgg agc 433

<210> 21
<211> 209
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 21

gcatctgcat cggcagcgcg ncagnngnat aggaggagat ggcgctcaca agaatcggtn 60

ttgctggcct tgcggncatg gggcagaacc ttgccctnaa cattgcagag aaagggnnan 120

ccatatgtgt gnacaacagg acaacctgca aggtngacna gaccgtncag ngngncnagg 180

cagaangana ccttangntt tannnattg 209

<210> 22
<211> 271
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22

caagaaggaa accttcctgt ntatggctac cataacccta aattctttgt ccaatccatt 60

cancaagcca agggtcataa taatgcttgt caaggctgnt gcacctgttg accaaaccat 120

caagaccctc tcagcacact tnnccaaggg tgattgcatc attgatggtg gcaatgagtg 180

gtatgagaac actgagagaa gagagaaagc gatgtccgaa ttgggtcttc tctaccttgn 240

ggatgggagt ttcaggtggt gaagaaggtg c 271

<210> 23
<211> 240
<212> DNA
<213> Glycine max

<400> 23

tctcgagcga atcggctcgg aggctactta aagggcttgg aatgaagaaa ggaaataatt 60

gatcaccaat ctgcctggag gagagttgtt tgccttgcta tcaattccgg tattagcact 120

ccaggttatt tcagggatag gattttgttc ctgactgtat tgcagtcacc gaatatggag 180

caactaagga cggatatttg ggggtatatt atgggcaacg agaggttgga tgcgaattac 240

<210> 24
<211> 242
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 24

ctgctctacc ttgggatggg agtttctggt ggtgaggaag gtgctctaat ggtccctctt 60

tgatgcctgg tggtcgttga ggcttcaaat acatagaaga tattcttctc aaggtgcagc 120

tcaagtcctg acagtggtct tgcgtactat atnnnaaggt gnctggtaat ttgtcnatga 180

tcacatggac gattgtgnat nantatgcaa ggcatattnt gagcatagca gtgcaataga 240

tc 242

<210> 25
<211> 263
<212> DNA
<213> Glycine max

<400> 25

cctgagttga gtttacatag ccacaacgtg gtgaagtttt atttatatta tttccaactg 60

aattgcttga tagtttgttt tccaactatg ttgtatcttt gctgatcatg ctttgtgctt 120

gatacaaaat tgtccagctc atggtgcctt tttaattttc acattttgat aagatttcct 180

tcagcgtcat ggatacatgt tatgttacac caggagttga aatttttaca tttattgtta 240

acttgttgag tttaatgttg atc 263

<210> 26
<211> 253
<212> DNA
<213> Glycine max

<400> 26

ctctcaaata catagaagat attcttctca atgtggcagc tcaagtacct gacagtggtc 60

cttgcgtgac ttatcttggt aaaggtgggt ctggtaattt tgtgagagag attcaacaat 120

ggaatgagta atggtgaatt cagctgaatt ccaaaggctt ataaggtccg gaattcagtt 180

ggaaagtggt caattgagga ctaacaaggg gcctcctcgg attggaccaa ggaagacctc 240

cgaagttccc gga 253

<210> 27
<211> 229
<212> DNA
<213> Glycine max

<400> 27

cagaccttat tttttctgtc atttgcttca aatttcagga gattaattat gcgctcaacc 60

cacaacaaga ataggccttg ctggattggc tgttaatggg caaaatctgg cactcaatat 120

tgcttgaaaa gggcttccca attccggtta acaacggaac catttccaag gttattgggc 180

cataagacga agcaaaccag gaaggaaacc ttcaatttat ggggaacaa 229

<210> 28
<211> 250
<212> DNA
<213> Glycine max

<400> 28

aatgaatctg atcagggcaa agagcattga gaaaggttgg gacttgaagt tgggggaact 60

tgcaaggatt tggaaagggg gttgcatcat aagagcaata tttttggaca gaatcaagaa 120

agcatacgac agaaatccta accttgcaaa ccttcttgtg gatccagaat ttgcaaagga 180

aatagtggat agacaatctg catggagaag agttgtgtgt cttgctatca actatggcac 240

tagcacacca 250

<210> 29
<211> 87
<212> DNA
<213> Glycine max

<400> 29

ggctcgaggg ggtcttacca cactgagtgg ttcaagcttg ccaaacagtc aagaaattag 60

agtactgtag tgcagccaat caggatc 87

<210> 30
<211> 256
<212> DNA
<213> Glycine max

<400> 30

attcttctca aggtggcagc tcaagtccct gacagtggtc cttgcgtgac ttatattggt 60

aaaggtggct ctggtaattt tgtgaaaatg atccacaatg gcatcgaata tggtgacatg 120

cagctgattg cagaggccta tgatgtgctg aagtcagttg gaaagttgtc aaatgaggaa 180

ctacaaagtg tcttctcaga atggaacaag ggagaacttc tgagtttcct gattgaaatc 240

actgcagata tatttg 256

<210> 31
<211> 213
<212> DNA
<213> Glycine max

<400> 31

gcgtgactta tattggtaaa ggtggctctg gtaattttgt gacaatgatc cacaatggca 60

tcgaatctgg tgacatgcag ctgattgcag aggcctatga tgtgctgaag tcagttggaa 120

agttgtcaaa tgaggaacta caaagtgtct tctcagaatg gaacaaggga gaacttctcg 180

agtttcctga ttgacatcac tgcagatata ttt 213

<210> 32

<211> 268
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32

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ggtaattttg tgaaaatgat ccacaatggc atcgaatatg gtgacatgca gctgattgca 120

gaggcctatg atgtgctgaa gtcagttgga aagttgtcaa atgaggaact acaaagtgtc 180

tcctcagaat ggaacaaggg agaattctga gtttccgatt ganatcatgc agatatattg 240

gattcangag ataagggaga nggatacc 268

<210> 33
<211> 109
<212> DNA
<213> Glycine max

<400> 33

aaattttgtg aaaatgatcc acaatggaat tgagtatggt gacatgcagc tcattgctga 60

ggcctatgat gtgctaaagt cggttggaaa gttgtcaaat gaggagctg 109

<210> 34
<211> 277
<212> DNA
<213> Glycine max

<400> 34

gggcactggt aagtggactg ttcagcaagg tgctgaatta tcaattgctg ctcccactat 60

tgaagcatca ttggatgcaa ggttcctgag tgggttgaag gaggaaagag ttgaagctgc 120

aaaggtcttt aaatcaggtg gtattggtga tatcgtgact gatcaacctg tagacaagaa 180

aaaattggtt gatgatgtta ggaaggctct ttatgcagcc aaaatctgta gttatgcaca 240

gggaatgaat ttgatccgtg caaagagtat tgaaaag 277

<210> 35
<211> 252
<212> DNA
<213> Glycine max

<400> 35

gcaaggttcc tgagtgggtt gaaggaggaa agagttgaag ctgcaaaggt ctttaaatca 60

ggtggcattg gtgatattgt gactgatcaa cctgtagaca agcagaagtt gattgatgat 120

gttaggaagg ctctttatgc agccagaatc tgtagttatg cacagggaat gaatttgatc 180

cgtgcaaaga gtattgaaaa gggttgggat ttgaagttgg gtgaactggc ccggatttgg 240

aaaggggttt gc 252

<210> 36
<211> 262
<212> DNA
<213> Glycine max

<400> 36

cttgttgaca aggtcctaga caagactggc atgaagggca ctggtcaagt ggactgggca 60

gcaagctgct gaattatcaa ttgctgctcc cactattgaa gcatcattgg atgcaaggtt 120

cctgagtggg ttgaaggagg aaagacttga agctgcaaag gtctttaaat caggtggtat 180

tgctgatatc gtgactgatc aacctgtaga caagaaaaaa ttggttgatg atgttaggaa 240

ggctctttat gcagccaaaa tc 262

<210> 37
<211> 241
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 37

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ggcatgaagg gcactggtaa gtggactgtt cagcaagctg ctgaattatc aattgctgct 120

cccactattg angcatcatt ggatgcaagg ttcctgagtg ggttgaagga ggaagagttg 180

aagctgcaaa ggtctttaaa tcaggtggta ttggtgatat cgtgactgat caacctgtag 240

a 241

<210> 38
<211> 239
<212> DNA
<213> Glycine max

<400> 38

aaagtgtctt ctcagaatgg aacaagggag aacttctgag tttcctgatt gaaatcactg 60

cagatatatt tggaattaag gatgataagg gagatggata tcttgttgac aagcgtccta 120

gacaagactg gcatgaaggg cactggtaag tggactgttc agcaagctgc tgaattatca 180

attgctgctc ccactattga agcatcattg gatgcaaggg tcctgagtgg ggtgaagga 239

<210> 39
<211> 252
<212> DNA
<213> Glycine max

<400> 39

ggagatggat tcttgttgac aaggtcctag acaagactgg catgaagggc actggtaagt 60

ggactgttca gcaagctgct gaattatcaa ttgctgctcc cactattgaa gcatcattgg 120

atgcaaggtt cctgagtggg ttgaaggagg aaagagttga agctgcaaag gtctttaaat 180

caggtggtat tggtgatatc gtgactgatc aacctgtaga caagaaaaaa ttggttgata 240

tgttaggaag gc 252

<210> 40
<211> 262
<212> DNA
<213> Glycine max

<400> 40

ctcgagccgt tcttagacag aatcaagcag gcatatgaaa gaacccctaa tctggcaaac 60

cttcttgtgg atccagagtt tgcaaaggaa ataattgatt accaatctgc ctggaggaga 120

gttgtttgcc ttgctatcaa ttctggtatt agcactccag gtatgtctgc tagtcttgct 180

tattttgaca cttacagaag ggaaaggttg ccagctaatt tggtgcaagc tcaacgagac 240

tactttggtg ctcatacata tg 262

<210> 41
<211> 167
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 41

accttcttgt ggatccagag tttgcaangg aaataatcga tcgccaatct gcctggagga 60

gagttgtttg ccttgctatc aattctggta tcagcactcc aggtatgtct gctagtctng 120

cttatnttga cacttacaga agggaaaggt nnccagctaa tttggtg 167

<210> 42
<211> 230
<212> DNA
<213> Glycine max

<400> 42

gtgatagcga tgtccgaatt gggtcttctc taccttggga tgggagtttc aggtggtgaa 60

gaaggtgcaa gacatggtcc ctctttgatg cctggtggtt cattcgagga ctacaagtac 120

atagaagaca ttctcctcaa ggtagacgca caagtccctg atagtggtca ttgtgtgacc 180

tacatcggca aaggtggatc aggaaatttt gtgaaaatga tccacaatgg 230

<210> 43
<211> 245
<212> DNA
<213> Glycine max

<400> 43

gtgaaagcga tgtccgaatt gggtcttctc taccttggga tgggagtttc aggaggtgaa 60

gaaggtgcaa gacatggtcc ctctttgatg cctggtggtt cattcgaggc ctacaagtac 120

atagaagaca ttctcctcaa ggtggccgca caagtccctg atagtggtcc ttgtgtgacc 180

tacatcggca aaggtggatc aggaaatttt gtgaaaatga tccacaatgg aattgagtat 240

ggtga 245

<210> 44
<211> 289
<212> DNA
<213> Glycine max

<400> 44

atctgcctgg aggagagttg tttgccttgc tatcaattct ggtattagca ctccaggtat 60

gtctgctagt cttgcttatt ttgacactta cagaagggaa aggttgccag ctaatttggt 120

gcaagctcaa cgagactact ttggtgctca tacatatgaa agggttgaca tagaggggtc 180

ttaccatact gagtggttca agcttgccaa acagtcaaga aattagatta ctgtatttga 240

gccatcagga ttttcctaat aaatgtaata ttgtctgctc agactgtat 289

<210> 45
<211> 272
<212> DNA
<213> Glycine max

<400> 45

tcaggtatgt ctgctagtct tgcttatttt gacacttaca gaagggaaag gttgccagct 60

aatttggtgc aagctcaacg agactacttt ggtgctcata catatgaaag ggttgacata 120

gaggggtctt accatactga gtggttcaag cttgccaaac agtcaagaaa ttagattact 180

gtatttgagc caatcaggat tttcctaata aatgtaatat tttctgctca gactgtatgc 240

tgagttgagt ttgcatatcc acaatgtggt ga 272

<210> 46
<211> 246
<212> DNA
<213> Glycine max

<400> 46

ctaagataca acatagttgg aaaacaaact atcaagcaat tcagttggaa ataatataaa 60

taaaacttca ccacgttgtg gctatgtaaa ctcaactcag catacagtct gagcagaaaa 120

cattacattt attaggaaaa tcctgattgg ttcaaataca gtaatctaaa ttctagactg 180

tttggcaagc ttgaaccact cagtatggta agacccctct atgtcaacca ttcatatgta 240

tgagca 246

<210> 47
<211> 156
<212> DNA
<213> Glycine max

<400> 47

ggggtcttac catactgagt ggttcaagct tgccaaacag tcaagaaatt agattactgt 60

atttgagcca atcaggattt tcctaataaa tgtaatattt tctgctcaga ctgtatgctg 120

agttgagttt gccaagcaat tcagttggaa ataatg 156

<210> 48
<211> 250
<212> DNA
<213> Glycine max

<400> 48

tatggctacc atgaccccga agcttttgtt cattccattc aaaagcctag ggtgataata 60

atgcttgtta aggctggggc acctgttgac cagaccatta agaccctatc tgcatacatg 120

gaaaaaggtg actgcataat tgatggtggt aacgaatggt acgagaacac cgaaaggaga 180

gagaaatcgg tggctgaatt gggtctgctc taccttggga tgggagtttc tggtggtgag 240

gaaagtgctc 250

<210> 49
<211> 170
<212> DNA
<213> Glycine max

<400> 49

ggcacctgtt gaccagacca ttaagaccct atctgcatac atggaaaaag gtgactgcat 60

aattgatggt ggtaacgaat ggtacgagaa caccgaaaga agagagaaat cggtggctga 120

attgggtctg ctctaccttg ggatgggagt ttctggtggt gaggaaggtg 170

<210> 50
<211> 275
<212> DNA
<213> Glycine max

<400> 50

gacgacagaa gggagaaatc ggtggctgaa ttgggtctgc tctacctcgg gatgggagtt 60

tctggtggtg aggaaggtgc tcgtaatggt ccctctttga tgcctggtgg ttcgtttgag 120

gctttcaaat acatagaaga tattcttctc aaggtggcag ctcaagtccc tgacagtggt 180

ccttgcgtga cttatattgg taaaggtggc tctggtaatt ttgtgaaaat gatccacaat 240

ggcatcgaat atggtgacat gcagctgatt gcaga 275

<210> 51
<211> 256

<212> DNA
<213> Glycine max

<400> 51

acggctgcga gaagacgaca gaaggggggaa aaaggtgact gtataattga tggtggtaac 60

gaatggtatg agaacactga aagaagagag aaagaggtgg ctgaattggg tctgctctac 120

cttgggatgg gagtttctgg tggtgaggaa ggtgctcgta atggtccctc tttgatgcct 180

ggtggttcgt ttgaggcttt caaatacata gaagatattc ttctcaaggt ggcagctcaa 240

gtacctgaca gtggtc 256

<210> 52
<211> 252
<212> DNA
<213> Glycine max

<400> 52

gactgccata ttgatggtgg taacgaatgg tacgagaaca ccgaaagaag agagaaatcg 60

gtggctgaat tgggtctgct ctaccttggg atgggagttt ctggtggtga ggaaggtgct 120

cgtaatggtc ctctttgatg cctggtggtt cgtttgaggc tttcaaatac atagaagata 180

ttcttctcaa ggtggcagct caagtccctg acagtggtcc ttgcgtgact tatattggta 240

aaggtggctc tg 252

<210> 53
<211> 346
<212> DNA
<213> Glycine max

<400> 53

gtgaagttaa ggaaatcaat tatggctcaa ccctcaacaa gaatagggcc ttgctggact 60

ggctgttatg ggccaaaatc tagcactcaa tattgctgag aaaggctttc ccatttctgt 120

ttataaccga accacttcca aggttgatga gactgtagaa cgagcaaaac aagaaggaaa 180

tcttccagtt tatggctacc atgaccccga agcttttgtt cattccattc aaaagcctag 240

ggtgataata atgcttgtta aggctggggc atctgttgac cagaccatta agaccctatc 300

tgcatacatg gaaaaaggtg actgcataat tgatggtggt aacgaa 346

<210> 54
<211> 283
<212> DNA
<213> Glycine max

<400> 54

ccagacctta atttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc 60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat 120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac 180

tgtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accccgaagc 240

ttttgtcatt ccattcaaaa gcctagggtg ataataatgc ttg 283

<210> 55
<211> 276
<212> DNA
<213> Glycine max

<400> 55

caaatttcag gaaatcaatt atggctcaac cctcaacaag aataggcctt gctggactgg 60

ctgttatggg ccaaaatcta gcactcaata ttgctgagaa aggctttccc atttctgttt 120

ataaccgaac cacttccaag gttgatgaga ctgtagaacg agcaaaacag gaaggaaatc 180

ttccagttta tggctaccat gaccccgaag cttttgttca ttccattcaa aagcctaggg 240

tgataataat gcttgttaag gctggggcac ctgttg 276

<210> 56
<211> 289
<212> DNA
<213> Glycine max

<400> 56

cagaccttaa ttgttctctc attcgcttca aatttcagga aatcaattat ggctcaaccc 60

tcaacaagaa taggccttgc tggactggct gttatgggcc aaaatctagc actcaatatt 120

gctgagaaag gctttcccat ttctgtttat aaccgaacca cttccaaggt tgatgagact 180

gtagaacgag caaaacaaga aggaaatctt ccagtttatg gctaccatga ccccgaagct 240

tttgttcatt ccattcaaaa gcctagggtg ataataatgc ttgttaagg 289

<210> 57
<211> 267
<212> DNA
<213> Glycine max

<400> 57

cctcattcgc ttcaaatttc aggaaatcaa ttatggctca accctcaaca agaataggcc 60

ttgctggact ggctgttatg ggccaaaatc tagcactcaa tattgctgag aaaggctttc 120

ccatttctgt tttaaccgaa ccacttccaa ggttgatgag actgtagaac gagcaaaaca 180

agaaggaaat cttccagttt atggctacca tgaccccgaa gcttttgttc attccattca 240

aaagcctagg gtgataataa tgcttgt 267

<210> 58
<211> 260
<212> DNA
<213> Glycine max

<400> 58

ccagacctta atttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc 60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat 120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac 180

tgtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accccgaagc 240

ttttgttcat tccattcaaa 260

<210> 59
<211> 260
<212> DNA
<213> Glycine max

<400> 59

tgtgattcca gaccttaatt tttctctcat tcgcttcaaa tttcaggaaa tcaattatgg 60

ctcaaccctc aacaagaata ggccttgctg gactggctgt tatgggccaa aatctagcac 120

tcaatattgc tgagaaaggc tttcccattt ctgtttataa ccgaaccact tccaaggttg 180

atgagactgt agaacgagca aaacaagaag gaaatcttcc agtttatggc taccatgacc 240

ccgaagcttt tgttcattcc 260

<210> 60
<211> 265
<212> DNA
<213> Glycine max

<400> 60

cagaccttaa tttttctctc attcgcttca aatttcaggg gatcaattat ggctcaaccc 60

tcaacaagaa tatgccttgc tggactggct gttatgggcc agaatctagc actcaatatt 120

gctgagaaag gctttcgcat ttctgtttat aaccgaacca cttccaaggt tgatgagact 180

gtagaacgag caaaacaaga aggaaatctt ccagtttatg gctaccatga ccccgaagct 240

tttgttcatt ccattcaaaa gccta 265

<210> 61
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 61

ctagacctta atttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc 60

ctcaacaaga ataggccttg ctggactggc tgttatgggt ccaaatctag cactcaatat 120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac 180

tgtagaacta gcannacaag aaggaaatct tccagtttat ggctaccatg accccgaagc 240

ttttgttcat tccattcaaa agc 263

<210> 62
<211> 279
<212> DNA
<213> Glycine max

<400> 62

tgctctgtga ttccagacct taatttttcc ctcattcgct tcaaatttca ggaaatcaat 60

tatggctcaa ccctcaacaa gaataggcct tgcacctctg gctgttatgg gccaaaatct 120

agcactcaat attgctgaga aaggctttcc catttctgtt tataaccgaa ccacttccaa 180

ggttgatgag actgtagaac gagcaaaaca agaaggaaat cttccagttt atggctacca 240

tgaccccgaa gcttttgttc attccattca aacgcctag 279

<210> 63
<211> 284
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 63

tgattccaga ccttaatttt tctctcattc gcttcaaatt tcaggaaatc aattatggct 60

caaccctcaa caagaatagg ccttgctgga ctggctgtta tgggccaaaa tctagcactc 120

natattgctg agaaaggctt tcccatttct gnttataacc gnaccacttc caaggntgat 180

gagactgtag nacgagcnaa acaggaagga aatcttccag tttatggcta ccatgacccc 240

gnagctttgt tcattccatt caaaagctag ggtgataata atgc 284

<210> 64
<211> 256
<212> DNA
<213> Glycine max

<400> 64

gtgattccag accttaattt ttctctcatt cgcttcaaat ttcaggaaat caattatggc 60

tcaaccctca acaagaatag gccttgctgg actggctgtt atgggccaaa atctagcact 120

caatattgct gagaaaggct ttcccatttc tgtttataac cgaaccactt ccaaggttga 180

tgagactgta gaacgagcaa aacaggaagg aaatcttcca gtttatggct accatgaccc 240

cgaagctttt gttcat 256

<210> 65
<211> 265
<212> DNA
<213> Glycine max

<400> 65

ccgtgctctg tgattccaga ccttaatttt tctctcattc ccttcaaatt tcaggaaatc 60

aattatggct caaccctcaa caagaatagg ccttgctgga ctggctgtta tgggccaaaa 120

tctagcactc aatattgctg agaaaggctt tcccatttct gtttataacc gaaccacttc 180

caaggttgat gagactgtag aacgagcaaa acaagaagga aatcttccag tttatggcta 240

ccatgacccc gaagcttttg ttcat 265

<210> 66
<211> 275
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 66

gtgattccca gaccttattt nttctgtcat ttgcttcaaa tttcaggaga ttaattatgg 60

ctcaacccan aacaagaata ggccttnctg gattggctgt tatgggccaa aatctggcac 120

tcaatattgc tgagaaaggc ttncccattt ctgtttacaa ccgaaccact tccaaggttg 180

atgagacagt agaacgagca aaacaagaag gaaatcttcc agtttatggc taccatgacc 240

ctgaagcttt tgttcattcc attcaanagc ctagg 275

<210> 67
<211> 236
<212> DNA
<213> Glycine max

<400> 67

cagaccttaa tttttctctc attcgcttca aatttcagga aatcaattat ggctcaaccc 60

tcaacaagaa taggccttgc tggactggct gttatgggcc aaaatctagc actcaatatt 120

gctgagaaag gctttcccat ttctgtttat aaccgaacca cttccaaggt tgatgagact 180

gtagaacgag caaaacagga aggaaatctt ccagtttatg gctaccatga ccccga 236

<210> 68
<211> 280
<212> DNA
<213> Glycine max

<400> 68

cacagacctt atgatttctg tcatttacat caaatttcag gagattaatt atggctcaac 60

ccataacaag aataggcctt gctggattgg ctgttatggg ccaaaatctg gcactcaata 120

ttgctgagaa aggctttccc attctgttta caaccgaacc acttccaagg ttgatgagac 180

agtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accctgaagc 240

ttttgttcat tccattcaaa agcctagggt gatactaatg 280

<210> 69
<211> 281
<212> DNA
<213> Glycine max

<400> 69

ctgtgattcc cagaccttat tttttctgtc atttgcttca agtctcagga gattgattat 60

ggctcaaccc acaacaagaa taggccttgc tggattggct gttatgggcc aaaatctggc 120

actcaatatt gctgagaaag gctttcccat ttctgtttac aaccgaacca cttccaaggt 180

tgatgagaca gtagaacgag caaaacaaga aggaaatctt ccagtttatg gctaccatga 240

ccctgaagct tttgttcatt ccattcaaaa gcctagggtg a 281

<210> 70
<211> 261
<212> DNA
<213> Glycine max

<400> 70

gattcccaga ccttattttt tctgtcattt gcttcaaatt tcaggagatt aattatggct 60

caacccacaa caagaatagg ccttgctgga ttggctgtta tgggccaaaa tctggcactc 120

aatattgctg agaaaggctt tcccatttct gtttacaacc gaaccacttc caaggttgat 180

gagacagtag aacgagcaaa acaagaagga aatcttccag tttatggcta ccatgaccct 240

gaagcttttg ttcattccat t 261

<210> 71
<211> 225
<212> DNA
<213> Glycine max

<400> 71

cttaatttgt ctctcattcg cttcaaattt caggaaatca attatggctc gaccctcgac 60

aagaataggc cttgctggac tggctgttat ggggcaaaat ctagcactca atattgctga 120

gaaaggcttt cccatttctg tttataaccg aaccacttcc aaggttgatg agactgtaga 180

acgagcaaaa caagaaggaa atcttccagt ttatggctac catga 225

<210> 72

<211> 265
<212> DNA
<213> Glycine max

<400> 72

ccagacctta atttttctct cattcgcttc agctttcagg aaatcaatta tggctcaacc 60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat 120

tactgagaaa ggctgtccca tttctgttta taaccgaacc acttccaagg ttgatgagac 180

tgcagaacga gcaaaacaag aaggacatct tccagtttat ggctaccatg accccgaagc 240

ttttgttcat tccattcaaa agccc 265

<210> 73
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 73

cccgcatctt ttgatccgtg ctctgtgatt cccagacctt atttntnctg tcatttgctt 60

caaatntcag gagattaatt atggctcaac ccacaacaag aataggcctt gctggattgg 120

gctgttatgg gccaaaatct ggcactcaat attgctgaga aaggctttcc catttctgtt 180

tacanccgaa ccacttccaa ggttgatgag acagtagaac gagcaaanca aganggaaat 240

cttccagttt atggctacca tgaccctgaa gcttttgttc nttccatt 288

<210> 74
<211> 259
<212> DNA
<213> Glycine max

<400> 74

gatccgtgct ctgtgattcc cagaccttat tttttctctc atttgcttca aatttcagga 60

gattaattat ggctcaaccc acaacaagaa taggccttgc tggattggct gttatgggcc 120

aaaatctggc actcaatatt gctgagaaag gctttcccat ttctgtttac aaccgaacca 180

cttccaaggt tgatgagaca gtagaacgag caaaacaaga aggaaatctt ccagtttatg 240

gctaccatga ccctgaagc 259

<210> 75
<211> 250
<212> DNA
<213> Glycine max

<400> 75

tccagacctt aatttttctc tcattcgctt caaatttcag gaaatcaatt atggctcaac 60

cctcaacaag aataggcctt gctggactgg ctgttatggg ccaatatcta gcactcaata 120

ttgctgagaa aggtttccca tttctgttta taaccgaacc acttccaagg ttgatgagac 180

tgtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accccgaagc 240

ttttgttcat 250

<210> 76
<211> 220
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 76

cnagacctta atttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc 60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat 120

tgctgagaaa ggctttccca tttcgncnta taaccgaacc acttccaagg ttgatgagac 180

tgtagaacga gcaaaacaag aaggaaatct tccagtttnt 220

<210> 77
<211> 230
<212> DNA
<213> Glycine max

<400> 77

tgtgattcca gaccttaatt tttctctcat tcgcttcaaa tgtcaggaaa tcaagtatgg 60

ctcaaccctc cacaagagta ggccttgctg gactggctgt tatgggccca aatctagcac 120

tcaatattgc tgagaaaggc tttcccattt ctgtttataa ccgaaccact tccaaggttg 180

atgagactgt agaacgagca aaacctgaag gcaatcttcc agtttatggc 230

<210> 78
<211> 259
<212> DNA

<213> Glycine max

<400> 78

cttatttttt ctgtcatttg cttcaaattt caggagatta attatagctc aacccacaac 60

aagaataggc cttgctggat tggctgttat gggccaaaat ctggcactca atattgctga 120

gaaaggcttt cccatttctg tttacaaccg aaccacttcc aaggttgatg agacagtaga 180

acgagcaaaa caagaaggaa atcttccagt ttatggctac catgaccctg aagcttttgt 240

tcattccatt caaaagcct 259

<210> 79
<211> 256
<212> DNA
<213> Glycine max

<400> 79

cttttgatcc gtgctctgtg attcccagac cttatttttt ctgtcatttg cttcaaattt 60

caggagatta attatggctc aacccacaac aagaataggc cttgctggat tggctgttat 120

gggccaaaac tggcactcaa tattgctgag aaaggctttc ccatttctgt ttacaaccga 180

accacttcca aggttgatga gacagtagaa cgagcaaaac aagaaggaaa tcttccagtt 240

tatggctacc atgacc 256

<210> 80
<211> 253
<212> DNA
<213> Glycine max

<400> 80

cccagacctt atttttctg tcatttgctt caaatttcag gagataatta tggctcaacc 60

cacaacaaga ataggccttg ctggattggc tgttatgggc caaaatctgg cactcaatat 120

tgctgagaaa ggctttccca tttctgttta caaccgaacc acttccaagg ttgatgagac 180

agtagaacga gcataacaag aaggaaatct tccagtttat ggctaccatg accctgaagc 240

ttttgttcat tcc 253

<210> 81
<211> 198
<212> DNA

<213> Glycine max

<400> 81

ccagacctta atttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc 60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat 120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac 180

tgtagaccga gcaaaaca 198

<210> 82
<211> 281
<212> DNA
<213> Glycine max

<400> 82

atataatata catacatata tataataactt attcccccgc atcttttgat ccgtgctctg 60

tgattcccag accttatttt ttctgtcatt tgcttcaaat ttcaggagat taattatggc 120

tcaacccaca acaagaatag gccttgctgg attggctgtt atgggccaaa atctggcact 180

caatattgct gagaaaggct ttcccatttc tgtttacaac cgaaccactt ccaaggttga 240

tgagacagta gaacgagcaa aacaagaagg aaatcttcca g 281

<210> 83
<211> 245
<212> DNA
<213> Glycine max

<400> 83

tcgatcgggt atcacatctg aattgggact gctcctattc tgggtactat tctgagaata 60

attatggctc aacccacaac aagaataggc cttgctggat tggctgttat gggccaaaat 120

ctggcactca atattgctga gaaaggcttt cccatttctg tttacaaccg aaccacttcc 180

aaggttgatg agacagtaga acgagcaaaa caagaaggaa atcttccagt ttatggctac 240

catga 245

<210> 84
<211> 230
<212> DNA
<213> Glycine max

<400> 84

aaccgaacca cttccaaggt tgtaaacaga aatgggaaag cctttctcag caatattgag 60

tgccagattt tggcccataa cagccaatcc agcaaggcct attcttgttg tgggttgagc 120

cataattaat ctcctgaaat ttgaagcaaa tgacagaaaa aataaggtct gggaatcaca 180

gagcacggat caaaagatgc gggggaataa gttatatata tatgtatgta 230

<210> 85
<211> 88
<212> DNA
<213> Glycine max

<400> 85

ggctcgagct cagtcgcttc aaatttcagg aaatcaatta tggctcaacc ctcaacaaga 60

ataggccttg ctggactggc tgttatgg 88

<210> 86
<211> 202
<212> DNA
<213> Glycine max

<400> 86

caaaaagcaa tctagctttg catactctac ctctacttca cctcgttacc aaaactagca 60

atcatgtctg tcgagcccaa gggagatgtc ggactcattg gtctggccgt tatgggtcaa 120

aacctgatcc tcaacatgaa cgacaagggt ttcaccgtcg tcgcctacaa ccgaaccacc 180

tccaaggtcg accacttcct gg 202

<210> 87
<211> 173
<212> DNA
<213> Glycine max

<400> 87

caaaaagcaa tctagctttg catactctac ctctacttca cctcgttacc aaaactagca 60

atcatgtctg tcgagcccaa gggagatgtc ggactcattg gtctggccgt tatgggtcaa 120

aacctgatcc tcaacatgaa cgacaagggt ttcaccgtcg tcgcctacaa ccg 173

<210> 88

<211> 237
<212> DNA
<213> Glycine max

<400> 88

aggaaacgcc tttcctgaga agtcggaagg aagagagtga gagtgagagt gagagtgaga 60

gagatggagt ttggattttt gggtttgggg ataatgggta aggctatggc aatcaatctg 120

ctacgccatg gcttcaaggt cactatttgg aacagaaccc tctccaagtg tgatgaactc 180

gtgcaacatg gtgcttcagt tggagaaacc ccagcaactg tagtcaagaa atgcaag 237

<210> 89
<211> 255
<212> DNA
<213> Glycine max

<400> 89

gattggtggt acactggaaa ttaaccatgg ctcaacctgc aagcctcaca agaataggcc 60

ttgctggcct ggctgtgatg ggccaaaacc ttgctctcaa cattgctgag aaaggctttc 120

ccatttctgt ctacaaccgg accgcgtcca aggttgatga gacagttgaa agagcaaaac 180

aagaaggaaa ccttcctgtg tatggctacc atgaccctaa attctttgtc caatccattc 240

aaaagccaag ggtca 255

<210> 90
<211> 256
<212> DNA
<213> Glycine max

<400> 90

ctttctcgca tgaattttcg aacattgaac aggaaattaa ccatggctca acctgcaagc 60

ctcacaagaa taggccttgc tggcctggct gtgatgggcc aaaaccttgc tctcaacatt 120

gctgagaaag gctttcccat ttctgtctac aaccggaccg cgtccaaggt tgatgagaca 180

gttgaaagag caaaacaaga aggaaacctt cctgtgtatg gctaccatga ccctaaattc 240

tttgtccaat ccattc 256

<210> 91
<211> 256
<212> DNA

<213> Glycine max

<400> 91

cacccagatc tcaattttct gcaatttcac tcagaccagg aaattaacca tggctcaacc 60

tgcaagcctc acaagaatag gccttgctgg cctggctgtg atgggccaaa accttgctct 120

caacattgct gagaaaggct ttcccatttc tgtctacaac cggaccgcgt ccaaggttga 180

tgagacagtt gaaagagcaa aacaagaagg aaaccttcct gtgtatggct accataaccc 240

taaattcttt gtccaa 256

<210> 92
<211> 249
<212> DNA
<213> Glycine max

<400> 92

cgatgccaca acttctgtgt tggattggtg gtacactgga aattaaccat ggctcaaaca 60

acaagcctca caagaatagg ccttgctggc ctggctgtga tgggccaaaa ccttgctctc 120

aacattgctg agaaaggctt tcccatttct gtctacaacc ggaccgcgtc caaggttgat 180

gagacagttg aaagagcaaa acaagaagga aaccttcctg tgtatggcta ccatgaccct 240

aaattcttt 249

<210> 93
<211> 250
<212> DNA
<213> Glycine max

<400> 93

ccagatctca attttctgca atttcactca gaccaggacc ttaaccatgg ctcaacctgc 60

aagcctcaca agaataggcc ttgctggcct ggctgtgatg ggccaaaacc ttgctctcaa 120

cattgctgac aaaggctttc ccatttctgt ctacaaccgg accgcgtcca aggttgatga 180

gacagttgaa agagcaaaac aagaaggaaa ccttcctgtg tatggctacc ataacctcaa 240

attctttgtc 250

<210> 94
<211> 273
<212> DNA

<213> Glycine max

<400> 94

gttaatttgc acctttttgtt tctctctaga aattagaagt tcatgcttaa actttacctt 60

gatacttctt tctcgcatga attttcgaac attgaacagg aaattaacca tggctcaacc 120

tgcaagcctc acaagaatag gccttgctgg cctggctgtg atgggccaaa accttgctct 180

caacattgct gagaaaggct ttcccatttc tgtctacaac cggaccgcgt ccaaggttga 240

tgagacagtt gaaagagcaa aacaagaagg aaa 273

<210> 95
<211> 250
<212> DNA
<213> Glycine max

<400> 95

gttaatttgc acctttttgtt tctctctaga aattagaagt tcatgcttaa actttacctt 60

gatacttctt tctcgcatga attttcgaac attgaacagg aaattaacca tggctcaacc 120

tgcaagcctc acaagaatag gccttgctgg cctggctgtg atgggccaaa accttgctct 180

caacattgct gagaaaggct ttcccatttc tgtctacaac cggaccgcgt ccaaggttga 240

tgagacagtt 250

<210> 96
<211> 307
<212> DNA
<213> Glycine max

<400> 96

caacagtgca tgcttgcaat tcaacttagt ctacagtgtc cttgtatatt actcttttgt 60

ccttgctcac ttgatgcttt ctacaatctc tgggacaccc agatctcaat tttctgcaat 120

ttcactcaga ccaggaaatt aaccatggct caacctgcaa gcctcacaag aataggcctg 180

ctggcctggg ctgtgatggg ccaaaacctt gctctcaaca ttgctgagaa aggctttccc 240

atttcgtcta caaccggacc gcgtccaagg ttgatgagac agttgaaaga gcaaacaaga 300

aggaact 307

<210> 97

<211> 241
<212> DNA
<213> Glycine max

<400> 97

ctaaaaagca cttcttagtt ctccctctcc cactaaaaac catagtactc tagataataa 60

ttaacatcaa ccctcactcc ttcgcacacc aaacccttcc ttcctatctc tcactaatct 120

aatggaatcc gcagcactgt cgcgcatagg cctggcgggc ctggcggtga tgggccaaaa 180

cctagcccta gacatcgcag aaaaggggtt cccgatctcc gtgtacaacc gcacggcctc 240

t 241

<210> 98
<211> 401
<212> DNA
<213> Glycine max

<400> 98

gcgtccatac gactgcgaga agacgacaga aggggatgtt aagaaggctc tttatgcagc 60

caaaatctgt agttatgcac agggaatgaa tttgatccgt gcaaacagta ttgagcgggg 120

ttgggatttg aagttgggtg aactggcccg gatttggaaa gggggttgca ttattagagc 180

aatattctta gacagaatca agcaggcata tgaaagaaac cctaatctgg caaaccttct 240

tgtggatcca gagtttgcac aggaaatcat tgattaccaa tctgcctgca ggagagttgt 300

ttgccttgct atcaattctg gtattagcac tccaggtatg tctgctaatc ttgcttattt 360

tgacacttac agaaaggaac agtttccagc caatttggtg c 401

<210> 99
<211> 435
<212> DNA
<213> Glycine max

<400> 99

cccacgcgtc cgtacggctg cgagaagacg acagaaggga gaaaaaattg gttgatgatg 60

ttaggaaggc tctttatgca gccaaaatct gtagttatgc acagggaatg aatttgatcc 120

gtgcaaagag tattgaaaag ggttgggatt tgaagttggg tgaactggcc cggatttgga 180

aaggtggttg catcattaga gcaatattct tagacagaat caagcaagcg tatgatagaa 240

accctaatct ggcaaacctt cttgtggatc cagagtttgc aaaggaaata atcgatcgcc 300

aatctgcctg gaggagagtt gtttgccttg ctatcaattc tggtatcagc actccaggta 360

tgtctgctag tcttgcttat tttgacactt acagaaggga aaggttgcca gctaatttgg 420

tgcaagctca acgag 435

<210> 100
<211> 376
<212> DNA
<213> Glycine max

<400> 100

cacgcgtcca tacggctgcg agaagacgac agaaggggat gttaggaagg ctctttatgc 60

agccaaaatc tgtagttatg cacagggaat gaatttgatc cgtgcaaaga gtattgaaaa 120

gggttgggat ttgaagttgg gtgaactggc ccggatttgg aaaggggggtt gcattattag 180

agcaatattc ttagacagaa tcaagcaggc atatgaaaga aaccctaatc tggcaaacct 240

tcttgtggat ccagagtttg caaaggaaat aattgattac caatctgcct ggaggagagt 300

tgtttgcctt gctatcaatt ctggtattag cactccaggt atgtctgcta gtcttgctta 360

gtttgacact tacaga 376

<210> 101
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 101

acgcgtccgc ccacgcgtcc gtacggctgc gagaagacga cagaaggggg atccgtgctc 60

tgtgattcca gaccttaatt tttctctcat tcgcttcaaa tttcnggaaa tcaattatgg 120

ctcaaccctc aacaagaata ggccttgctg gactggctgt tatgggccaa aatctagcac 180

tcaatattgc tgagaaaggc tttcccattt ctgtttataa ccgaaccact tccaaggttg 240

atgagactgt agaacgagca aaacaagaag gaaatcttcc agtttatggc taccatgacc 300

ccgaagcttt tgttcattcc attcaaaaac ctaaggtgat 340

<210> 102
<211> 354

<212> DNA
<213> Glycine max

<400> 102

agtacggctg cgagaagacg acagaagggg ttgccagcta atttggtgca agctcaacga 60

gactactttg gtgctcatac atatgaaagg gttgacatag aggggtctta ccatactgag 120

tggttcaagc ttgccaaaca gtctagaatt tagattactg tatttgaacc aatcaggatt 180

ttcctaataa atgtaatgtt ttctgctcag actgtatgct gagttgagtt tacatagcca 240

caacgtggtg aagttttatg tatattattt ccaactgaat tgcatgatag tttgttttcc 300

aactatgttg tatctttgct gattatgctt tgtgcttgat acaaaattgt ccca 354

<210> 103
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 103

aggctgcgag aagacgacag aaggggggtgc tctatgattc ccagacctta ttttttctgt 60

catttgcttc aaatttcagg gagattaatt atggctcaac ccacaacaag aataggcctt 120

gctggattgg ctgttatggg ccaaaatctg gcactcaata ttgctgagaa aggctttccc 180

atttctgttt acaaccgaac cacttccaag gttgatgaga cagtagaacg agcaaaacaa 240

gaaggaaatc ttccagttta tggctaccat gaccctgaag cttttgttca ttccattcaa 300

aagcctaagg tgataataat gcttgttaag gctggggcac ctgttgacca gaccattaag 360

aacctatctg cgtacatgga anaaagtgac tgtataatt 399

<210> 104
<211> 179
<212> DNA
<213> Zea mays

<400> 104

gagctgtcgg tggccgctcc tacgatcgag gcgtccttgg actcgaggtt cctgagcggg 60

ctgaaggacg agcgggtgga tgcctccaag atcttccatg gtgactacta ctccaccggc 120

tcgccggtgg acaaggcgca ctggttggag gacgtgatgc aggccctgta cgcgtccaa 179

<210> 105
<211> 270
<212> DNA
<213> Zea mays

<400> 105

tagcgcgacg gccgcccttt ttttttttt ttgagaatca tcatagcaat tgcataccaa 60

aattaagaga atcaaactgt gcgtacctac atcacagtaa aactgaagct acacaatgtt 120

cttcacttgc caaccataca gtacagcatt atttgaagta ctcgacttgg atctagaagc 180

ataaagataa caatagtaaa acaaaagata acccacagag agacatcaca caaagcagac 240

aacatcactt ctcataccaa ccaattcctc 270

<210> 106
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 106

ccgcaacgnn cncgtccttg atgcccggan gctcgttcga cgcttacaag tacgtcgaag 60

acattgttct caaggtggct gctcaggtcc ctgacagtgg cccgtgtgtn acgtacattg 120

gcaaaggtgg atcgggcaac tttgtcaaga tggttcacaa cggaatcgag tatgggcgat 180

atgcagctga tttccgaggc ttacgacgtt ctcaagtcgg tcggtaagct caccaacagt 240

gagctgcacc aggtgttctc cgagtggaac aagggcgagt cctgagttct t 291

<210> 107
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 107

cgcagacgga ggacggcgcc tgcgtcacct tcgtcgggcc cggcggcgcc ggcaacttcg 60

tcaagatggt gcacaacggg ancgagtacg gcgacatgca gcaccatcgc cgaggcgtac 120

gacgtgctcc gcaggctcgg gggcctgtcc aactccgaga tcgccgatgt cttcgctgag 180

tggaacaggg gggagctcga gagcttcctg gtcnagatca ccgccgacat tttcaccgtg 240

gctgacccgt tggacgggag cgggagtggc ggcggggcgt ggttgat 287

<210> 108
<211> 192
<212> DNA
<213> Zea mays

<400> 108

cggcgacatg cagctcatcg ccgaagcgta cgacgtgctc cgcaggctcg ggggcctgtc 60

caactccgag atcgccgacg tcttcgcgga gtggaacagg ggggagctcg agagcttcct 120

ggtccagatc atcgccgaca ttttcatcgt gctgacccgt tagactggag ctggatcggc 180

ggtcaggacg ct 192

<210> 109
<211> 281
<212> DNA
<213> Zea mays

<400> 109

gatggctgct caggtacctg ttagcggccc gtgcgtcaca tgtattggca aatgtggatc 60

agggaacttc gtcaagatgc ttcacaattg aattgagtat ggttgcatgc aacttatcga 120

cgaggcttat gatttactca agtcggtgag taagctcatc aacagcgagc tgcatcaggt 180

attctctgag tgtgaatcaa ggtgagctcc tcagtatctt gattaagatc acggccgaca 240

tcgttggtat ctaggatcac aagggtgaat gctacctcgt c 281

<210> 110
<211> 325
<212> DNA
<213> Zea mays

<400> 110

tagcgctcac aagaatcggt cttgctgagc ctgcgtgtca tggcggcaga aacttgccct 60

caacattgca gaggaagggt tccccatctc tgtgtacaac aggagaagct ccaaggtgga 120

cgagaccgtg ccacgtgcca acgcagtacg aaaccttccc gtctagggct tccatgaccc 180

cgcgttcgtt gtgaagtcca ttcagaagcc acgggtggtg atcatgctcg tcaaagccgg 240

cgcgcagttg accagaccat cgcgactctc gcagctcact tggagcaggg cgactgcatc 300

atcgctcgtg ggaacgagtg gtacg 325

<210> 111
<211> 222
<212> DNA
<213> Zea mays

<400> 111

aaagggacag ggaagtggac ggtgcagcag gccgccgagc tgtcggtggc cgctcctacg 60

atcgaagcgt tcttggactc gaggttcctg agcgggctga aggacgagcg ggtggaggcc 120

tccaagatct tccagggtga ctactactcc accggctcgc cggtggacaa ggcgcagctg 180

gtggaggacg tgaggcaggc cctgtacgcg tacaagatct gc 222

<210> 112
<211> 334
<212> DNA
<213> Zea mays

<400> 112

tgactactcc actggcctac cggtggacaa ggcacagctg atcgaggacg tgaggcaagc 60

tctatatgcc tccaagatct gcagttacgc gcagggcatg aacatcatca aggccaagag 120

ctcagagaaa ggatggggcc tcaaccttgg tgagctagcg aggatctgga agggagggtg 180

catcatccgt gccatcttcc tcgaccgcat caagaaggcg tacgatagga accctaacct 240

tgccaacctc ctcgttgacc ccgagttcgc ccaggagatc atagacaggc aagctgcctg 300

gcgcagggtt gtctgccttg ccatcaacaa tggc 334

<210> 113
<211> 314
<212> DNA
<213> Zea mays

<400> 113

gaggcctcca agatcttcca gggtgactac tactccaccg gctcgccggt ggacaaggcg 60

cactgagtgg aggacgtgag gcaggccctg tacgcgtcca agatctgcag ctacgcgcag 120

ggcatgaaca tcatcaaggc caagagcgcg gagaaaggct ggggcgtcga cctcggcgaa 180

ctggcacagg atctagaagg gcgggtgcat catccgcgcc atcttcctgg accgcatcaa 240

gaaggcctac gacaggaacc cgggcctcgc cagcctgctc gtagaccccg agttcgcgca 300

ggagatcatg gaca 314

<210> 114
<211> 271
<212> DNA
<213> Zea mays

<400> 114

gaggcaagct ctatatgcct ccaagatctg cagttacgcg cagggcatga acatcatcaa 60

ggccaagagc tcagagaaag gatggggcct caaccttggt gagctagcga ggatctggaa 120

gggagggtgc atcatccgtg ccatcttcct cgaccgcatc aagaaggcgt acgataggaa 180

ccctaacctt gccaacctcc tcgttgaccc cgagttcgcc caggagatca tagacaggca 240

agctgcctgg cgcagggttg tctgccttgc c 271

<210> 115
<211> 271
<212> DNA
<213> Zea mays

<400> 115

ctccactggc ctaccggtgg acaaggcaca gctgatcgag gacgtgaggc aagctctata 60

tgcctccaag atctgcagtt acgcgcaggg catgaacatc atcaaggcca agagctcaga 120

gaaaggatgg ggcctcaacc ttggtgagct agcgaggatc tggaagggag ggtgcatcat 180

ccgtgccatc ttcctcgacc gcatcaagaa ggcgtacgat aggaacccta accttgccaa 240

cctcctcgtt gaccccgagt tcgcccagga g 271

<210> 116
<211> 289
<212> DNA
<213> Zea mays

<400> 116

gaggacgtga ggcaagctct atatgcctcc aagatctgca gttacgcgca gggcatgaac 60

atcatcaagg ccaagagctc agagaaagga tggggcctca accttggtga gctagcgagg 120

atctggaagg gagggtgcat catccgtgcc atcttcctcg accgcatcaa gaaggcgtac 180

gataggaacc ctaaccttgc caacctcctc gttgaccccg agttcgccca ggagatcata 240

gacaggcaag ctgcctggcg cagggttgtc tgccttgcca tcaacaatg 289

<210> 117
<211> 266
<212> DNA
<213> Zea mays

<400> 117

ctacgcgcag ggcatgaaca tcatcaaggc caagagcgcg gagaaaggct gggggctcaa 60

cctcggcgag ctggccagga tctggaaggg cgggtgcatc atccgcgcca tcttcctgga 120

ccgcatcaag aaggcctacg acaggaaccc gggcctcgcc agcctgctcg tagaccccga 180

gttcgcgcag gagatcatgg acaggcaggc ggcgtggcgc agggtggtgt gcctcgccat 240

caacaacggc gtcagacccc gggaat 266

<210> 118
<211> 264
<212> DNA
<213> Zea mays

<400> 118

cgccacgccg cctgcctgtc catgatctcc tgcgcgaact cggggtctac gagcaggctg 60

gcgaggcccg ggttcctgtc gtaggccttc ttgatgcggt ccaggaagat ggcgcggatg 120

atgcacccgc ccttccagat cctggccagc tcgccgaggt tgagccccca gcctttctcc 180

gcgctcttgg ccttgatgat gttcatgccc tgcgcgtagt gcagatcttg gacgcgtaca 240

gggcctgcct cacgtcctcc acca 264

<210> 119
<211> 254
<212> DNA
<213> Zea mays

<400> 119

cggacgcgtg gcggaccgtg ggggacgtga ggcaagctct atatgcctcc aagatctgca 60

gttacgcgca aggcatgaac agcatcaagg ccaagagctc agagaaagga tggggcctca 120

accttggtga gctagcgagg atctggaagg gagggtgcat catccgtgcc atcttcctcg 180

accgcatcaa gaaggcgtac gataggaacc ctaaccttgc caacctcctc gttgaccccg 240

agttcgccca ggag 254

<210> 120
<211> 242
<212> DNA
<213> Zea mays

<400> 120

gcacgagctt ggactcgagg ttcctgagcg ggctgaagga cgagcgggtg gaggcctcca 60

agatcttcca gggtgactac tactccaccg gctcgccggt ggacaaggcg cactggtgga 120

ggacgtgagg caggccctgt acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat 180

catcaaggcc aagagcgcgg agaaaggctg ggggctcaac ctcggcgagc tggccaggat 240

ct 242

<210> 121
<211> 225
<212> DNA
<213> Zea mays

<400> 121

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg 60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca 120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca 180

gcctgctcgt agaccccgag ttcgcgcagg agatcatgga caggc 225

<210> 122
<211> 220
<212> DNA
<213> Zea mays

<400> 122

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg 60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca 120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca 180

gcctgctcgt agaccccgag ttcgcgcagg agatcatgga 220

<210> 123
<211> 248
<212> DNA
<213> Zea mays

<400> 123

gtgcatcatc cgtgccatct tcctcgaccg catcaagaag gcgtacgata ggaaccctaa 60

ccttgccaac ctcctcgttg accccgagtt cgcccaggag atcatagaca ggcaagctgc 120

ctggcgcagg gttgtctgcc ttgccatcaa caatggcgtt agcaccccag gcatgtctgc 180

aagtctggcc tacttcgact cgtaccgaag agttaggttt cgcgaaactg tggtggaggc 240

tcagagag 248

<210> 124
<211> 209
<212> DNA
<213> Zea mays

<400> 124

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg 60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca 120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca 180

gcctgctcgt agaccccgag ttcgcgcag 209

<210> 125
<211> 210
<212> DNA
<213> Zea mays

<400> 125

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg 60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca 120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca 180

gcctgctcgt agaccccgag ttcgcgcagg 210

<210> 126
<211> 206
<212> DNA

<213> Zea mays

<400> 126

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg 60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca 120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca 180

gcctgctcgt agaccccgag ttcgcg 206

<210> 127
<211> 176
<212> DNA
<213> Zea mays

<400> 127

gcgccatctt cctggaccgc atcaagaagg cctacgacag gaacccgggc ctcgccagcc 60

tgctcgtaga ccccgagttc gcgcaggaga tcatggacag gcaggcagcg tggcgcaggg 120

tggtgtgcct cgccatcaac aacggcgtca caccccggga atgtccgcta gcctgg 176

<210> 128
<211> 146
<212> DNA
<213> Zea mays

<400> 128

cgtgaggcag gccctgtacg cgtccaagat ctgcagctac gcgcagggca tgaacatcat 60

caaggccaag agcgcggaga aaggctgggg gctcaacctc ggcgagctgg ccaggatctg 120

gaagggcggg tgcatcatcc gcgcca 146

<210> 129
<211> 187
<212> DNA
<213> Zea mays

<400> 129

tggtggagga cgtgaggcag gccctgtacg cgtccaagat ctgcagctac gcgcagggca 60

tgaacatcat caaggccaag agcgcggaga aaggcttggg gctcggcctc ggcgagctgg 120

ccaggatctg gaagggcggg tgcatcatcc gcgccatctt cctggaccgc atcaagaatg 180

cctacga 187

<210> 130
<211> 123
<212> DNA
<213> Zea mays

<400> 130

gcctcaacct tggtgagcta gcgacgatct ggaaaggagg gtgcatcatc cgtgtaatct 60

tcctcgaccg catcaagaag gcgtacgata ggaaccctaa ccttgccaac ctcctcgttg 120

acc 123

<210> 131
<211> 83
<212> DNA
<213> Zea mays

<400> 131

gtgcatcatc cgtgccatct tcctcgaacg catcgagaag gcgtacgata ggaaccctaa 60

ccttgccaac ctcctcgttg acg 83

<210> 132
<211> 270
<212> DNA
<213> Zea mays

<400> 132

caggattctg gacaagactg ggatgaaggg gaccgggaaa tggaccgtgc agcaggcggc 60

ggacttgcgg tggcagcgcc acgattgccg cgtcgctgga cgggaggtac ctctcagggt 120

tgaaggacga acgggtcgca gccgctgggg tgctggagga agaggggatg ccggcagcct 180

gttggagacg gttaatgtcg acaagaaggt gctggtggat acggtcaggc aagcgctcta 240

cgcctccaag atttgcagct atgcgcaggg 270

<210> 133
<211> 258
<212> DNA
<213> Zea mays

<400> 133

cggacgcgtg ggggaaccgt gcagcaggcg gcggacttgc ggtggcagcg cccacgattg 60

ccgcgtcgca ggacgggagg tacctctcag ggttgaagga cgaacgggtc gcagccgctg 120

gggtgctgga ggaagagggg atgccggcag gcctgttgga gacggttaat gtcgacaaga 180

aggtgctggt ggatagggtc aggcaagcgc tctacgcctc caagatttgc agctatgcgc 240

agggaatgaa tctgctgc 258

<210> 134
<211> 119
<212> DNA
<213> Zea mays

<400> 134

atgcccggtg ttgactactc cagtcggtaa tgagatttcc tgcaggaact tgtctattga 60

tctttgtaag ttaattattt atatgaataa aataagagca aacatgcttg tgtttgggc 119

<210> 135
<211> 87
<212> DNA
<213> Zea mays

<400> 135

atgcccggtg ttgactactc cagtcggtaa tgagatttcc tgcaggaact tgtctattga 60

tctttgtaag ttaattattt atatgaa 87

<210> 136
<211> 312
<212> DNA
<213> Zea mays

<400> 136

atgtcctgga caagaccggg atgaatggaa ctgggaaatg gacagtccag caggctgctg 60

agctttctgt agctgctcct acaatcgagg cgtccttgga ctccaggttc ctcagcggtc 120

tgaaggacga gcgcgttgag gcttccaaaa tcttccaagg tgactactcc actggcctac 180

cggtggacaa ggcacagctg atcgaggacg tgaggcaagc tctatatgcc tccaagatct 240

gcagttacgc gcagggcatg aacatcatca aggccaagag ctcagagaaa ggatggggcc 300

tcaaccttgg tg 312

<210> 137
<211> 307
<212> DNA
<213> Zea mays

<400> 137

gatcaggcaa cttcgtcaag atggttcaca atggaattga atatggtgac atgcaactta 60

tcgccgaggc ttatgatgtt ctcaagtcgg tgggtaagct cacaaacagc gagctgcatc 120

aggtgttctc tgagtggaac aagggtgagc tcctcagttt cttgattgag atcacggccg 180

acatctttgg tatcaaggat gacaagggtg aaggctacct ggtcgacaag gtcctggaca 240

agaccgggat gaagggaact gggaaatgga cagtccagca ggctgctgag ctttctgtag 300

ctgctcc 307

<210> 138
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 138

cgatatgcag ctgatttccg aggcttacga cgttctcaag tcggtcggta agctcaccaa 60

cagtgagctg caccaggtgt tctccgagtg gaacaagggg cgagctcctg agcttcttga 120

tcganatcac ggccgacatc tttggcatca aggacgagca tggcgatggc tacctagtgg 180

acaaggtcct tgacaagacc gggatgaaag ggacagggaa gtggacggtg cagcaggccg 240

ccgagctgtc ggtggccgct cctacgatcg angcgtcctt ggactcgagg ttcctgagcg 300

ggctg 305

<210> 139
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 139

tgttctcaag tcggtgggta agctaacaaa cagcgagctg catcaggtgt tctctgagtg 60

gaacaagggt gagctcctca gtttcttgat tgagatcacg gccgacatct ttggtatcaa 120

ggatgacaag ggtgaaggct acctggtcga caaggtcctg gacaagaccg ggatgaaggg 180

aactgggaaa tggacagtcc agcaggctgc tgagctttct gtagctgctc ctacaatcga 240

ggcgtccttg gactccaggt tcctcagcgg tctaaggacg agcgcgttga ggcttccana 300

atcttccaag gtgactactc cactgagcct acggtgngac aaggcacagc tgatcg 356

<210> 140
<211> 312
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 140

ctctgagtgg aacaagggtg agctcctcag tttcttgatt gagatcacgg ccgacatctt 60

tggtatcaag gatgacaagg gtgaaggcta cctggtcgac aaggtcctgg acaagaccgg 120

gatgaaggga actgggnaat ggacagtcca gcaagctgct gaacttcctg tagctgctcc 180

tacaatcaag gcgtccttgg actccaggtc cctcagcggt ctgaatgacg accgcgttga 240

ggcttccaaa atcttccaag gtgactactc cactggccta ccggtggaca aggcacagct 300

gatggaggac gt 312

<210> 141
<211> 275
<212> DNA
<213> Zea mays

<400> 141

gtggatcagg caactttgtc aagatggttc acaatgggat tgaatatggt gacatgcaac 60

ttatcgctga ggcttatgat gttctcaagt cggtgggtaa gctaacaaac agcgagctgc 120

atcaggtgtt ctctgagtgg aacaagggtg agctcctcag tttcttgatt gagatcacgg 180

ccgacatctt tggtatcaag gatgacaagg gtgaaggcta cctggtcgac aaggtcctgg 240

acaagaccgg gatgaaggga actgggaaat ggaca 275

<210> 142
<211> 268
<212> DNA
<213> Zea mays

<400> 142

tgttctccga gtggaacaag ggcgagctcc tgagcttctt gatcgagatc acggccgaca 60

tctttggcat caaggacgag catggcgatg gctacctggt ggataaggtc cttgacaaga 120

ccgggatgaa agggacaggg aagtggacgg tgcagcaggc cgccgagctg tcggtggccg 180

ctcctacgat cgaggcgtcc ttggactcga ggttcctgag cgggctgaag gacgagcggg 240

tggaggcctc caagatcttc cagggtga 268

<210> 143
<211> 269
<212> DNA
<213> Zea mays

<400> 143

cgacgttctc aagtcggtcg gtaagctcac caacagtgag ctgcaccagg tgttctccga 60

gtggaacaag ggcgagctcc tgagcttctt gatcgagatc acggccgaca tctttggcat 120

caaggacgag catggcgatg gctacctggt ggacaaggtc cttgacaaga ccgggatgaa 180

agggacaggg aagtggacgg tgcagcaggc cgccgagctg tcggtggccg ctcctacgat 240

cgaggcgtcc ttggactcga ggttcctga 269

<210> 144
<211> 267
<212> DNA
<213> Zea mays

<400> 144

ggcaaaggtg gatcgggcaa ctttgtcaag atggttcaca acggaatcga gtatggcgat 60

atgcagctga tttccgaggc ttacgacgtt ctcaagtcgg tcggtaagct caccaacagt 120

gagctgcacc aggtgttctc cgagtggaac aagggcgagc tcctgagctt cttgatcgag 180

atcacggccg acatctttgg catcaaggac gagcatggcg atggctacct agtggacaag 240

gtccttgaca agaccgggat gaaaggg 267

<210> 145
<211> 247
<212> DNA
<213> Zea mays

<400> 145

gagatcacgg ccgacatctt tggtatcaag gatgacaagg gtgaaggcta cctggtcgac 60

aaggtcctgg acaagaccgg gatgaaggga actgggaaat ggacagtcca gcaggctgct 120

gagctttctg tagctgctcc tacaatcgag gcgtccttgg actccaggtt cctcagcggt 180

ctgaaggacg agcgcgttga ggcttccaaa atcttccaag gtgactactc cactggccta 240

ccggtgg 247

<210> 146
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 146

cgtacnnttn gcanangtgg atcgggcaac tttgtcaaga tggtncacaa cggaatcgag 60

tatggcgata tgcagctgat ttccgangct tacgacgttc tcaagtcggt cggtaagctc 120

accaacagtg agnngcacca ngtgttctcc gantggaaca anggnnagct cctgngcttc 180

ttgatcgnga tnncggccga natcnttggc atcaaggacg agcatggcga tggctaccta 240

ntggncaagg tccntgacaa gaccg 265

<210> 147
<211> 216
<212> DNA
<213> Zea mays

<400> 147

gtccagcagg ctgctgagct ttctgtagct gctcctacaa tccaggcgtc cttggactcc 60

aggttcctca gcggtctgaa ggactagcgc gttgaggctt ccagaatctt ccaaggtgac 120

tactccactg gcctaccggt ggacaatgca cagctgatcg aggacgtgag gcaagctcta 180

tatgcctcca ggatctgcag ttacgcgcag ggcatg 216

<210> 148
<211> 256
<212> DNA
<213> Zea mays

<400> 148

caagggtgag ctcctcagtt tcttgattga gatcacggcc gacatctttg gtatcaagga 60

tgacaagggt gaaggctacc tggtcgacaa ggtcctggac aagaccggga tgaagggaac 120

tgggaaatgg acagtccagc aggctgctga gctttctgta gctgctccta caatcgaggc 180

gtccttggac tccaggttcc tcaccgtctt aaaggacgac cgcgttgagg cttccaaaat 240

cttccaaggt ggatat 256

<210> 149
<211> 176
<212> DNA
<213> Zea mays

<400> 149

aaacagcgag ctgcatcagg tgttctctga gtggaacaag ggtgagctcc tcagtttctt 60

gattgagatc acggccgaca tctttggtat caaggatgac aagggtgaag gctacctggt 120

cgacaaggtc ctggacaagc cgggatgaag ggaactggga aatggacact ccaaca 176

<210> 150
<211> 185
<212> DNA
<213> Zea mays

<400> 150

cgacgttctc aagtcggtcg gtaagctcac caacagtgag ctgcaccagg tgttctccga 60

gtggaacaag ggcgagctcc tgagcttctt gatcgagatc acggccgaca tctttggcat 120

caaggacgag catggcgatg gctacctggt ggacaaggtc cttgacaaga ccgggatgaa 180

aggga 185

<210> 151
<211> 136
<212> DNA
<213> Zea mays

<400> 151

caaacagcga gctgcatcag gtgttctctg agtggaacaa ggggcggctc ctcagtttct 60

tgattgagat cacggccgac atctttggta tcaaggatga caagggtgaa ggctacctgg 120

tcgacaaggt cctgga 136

<210> 152
<211> 282
<212> DNA
<213> Zea mays

<400> 152

cggcgctcac acgtacgaga gggacaggct tcccgccaac ctggtgcagg ctcagagaga 60

ctacttcggc gctcacacgt acgagagggt tgacatgcct ggttctttcc acaccgagtg 120

gttcaagatt gcgcgcaact ccaagatctg aacatggcct cgtgtttgca tatgccagta 180

tgccaccgtg tcgagtaatc actcatatta ctgcttgcag ggaggaactg tgtttgattt 240

ttattttcca tgcgcaatgc ttaatttagg tcaggaagtc ca 282

<210> 153
<211> 248
<212> DNA
<213> Zea mays

<400> 153

gcacgagcag ggataggctt cccgccaacc tggtgcaggc tcagagagac tacttcggcg 60

ctcacacgta cgagagggtt gacatgcctg gttctttcca caccgagtgg ttcaagattg 120

cgcgcaactc caagatctga acatggcctc gtgtttgcat atgccagtat gccaccgtgt 180

cgagtaatca atcatattac tgcttgcagg gaggaactgt gtttgatttt tattttccat 240

gcgcaatg 248

<210> 154
<211> 254
<212> DNA
<213> Zea mays

<400> 154

gcgcgcaact ccaagatctg aacatggcct cgtgtttgca tatgccagta tgccaccgtg 60

tcgagtaatc aatcatatta ctgcttgcag ggaggaactg tgtttgattt ttattttcca 120

tgcgcaatgc ttaatttagg tcaggaagtc caaagtctct cccattgttt tcctgtaaga 180

gctaagcagt accagatgga gaaccttata tttgctggaa catgaataga agcatttgac 240

atgcttgtgc ttac 254

<210> 155
<211> 236
<212> DNA
<213> Zea mays

<400> 155

gcacgagatt gcgcgcaact ccaagatctg aacatggcct cgtgtttgca tatgccagta 60

tgccaccgtg tcgagtaatc aatcatatta ctgcttgcag ggaggaactg tgtttgattt 120

ttattttcca tgcgcaatgc ttaatttagg tcaggaagtc caaagtctct cccattgttt 180

tcctgtaaga gctaagcagt accagatgga gaaccttata tttgctggaa catgaa 236

<210> 156
<211> 197
<212> DNA
<213> Zea mays

<400> 156

agacaggcaa gctgcctggc gcagggttgt ctgccttgcc atcaacaatg gcgttagcac 60

cccaggcatg tctgcaagtc tggcctactt cgactcgtac cgcagggaca ggcttcccgc 120

caacctggtg caggctcaga gagactactt cggcgctccc acgtacgaga gggttgacat 180

gcctggttct ttccaca 197

<210> 157
<211> 281
<212> DNA
<213> Zea mays

<400> 157

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggca agctgcctgg cgcagggttg 60

tctgccttgc cactcaacaa tggcagttac accccaggca tgtctgcaca gtctggccta 120

cttcgactcg taccgcagga caggcttccc gccaacctgg tgcaggctca gagagactac 180

ttcggcgctc acacgtacga gagggttgac atgcctggtt ctttccacac cgagtggttc 240

aagattgcgc gcaactccaa gatctgaaca tggcctcgtg t 281

<210> 158
<211> 249
<212> DNA

<213> Zea mays

<400> 158

cttgccatca acaatggcgt tacaccccag gcatgtctgc aagtctggcc tacttcgact 60

cgtaccgcag gacaggcttc ccgccaacct ggtgcaggct cagagagact acttcggcgc 120

tcacacgtac gagagggttg acatgcctgg ttctttccac accgagtggt tcaagattgc 180

gcgcaactcc aagatctgaa catggcctcg tgtttgcata tgccagtatg ccaccgtgtc 240

gagtaatca 249

<210> 159
<211> 150
<212> DNA
<213> Zea mays

<400> 159

gggaggaact gtgtttgatt tttattttcc atgcgcaatg cttaatttag gtcaggaagt 60

ccaaagtctc tcccattgtt ttcctgtaag agctaagcag taccagatgg agaaccttat 120

atttgctgga acatgaataa aagcatttga 150

<210> 160
<211> 133
<212> DNA
<213> Zea mays

<400> 160

gtaagtctgg cctacttcga ctcgtaccgc agggacaggc ttcccgccaa cctggtgcag 60

gctcagagag actacttcgg cgctcacacg tacgagaggg ttgacatgcc tggttctttc 120

cacaccgaat ggt 133

<210> 161
<211> 72
<212> DNA
<213> Zea mays

<400> 161

attgcgcgca actccaagat ctgaacatgg cctcgtgttt gcatatgcca gtatgccacc 60

gtgtcgagta at 72

<210> 162
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 162

atcaggggga ctgtatcgtc gatggtggca acgagtggta cgagaacacg gagaggaggg 60

agaaggcgat ggaggagcgc gggctcctat atcttggcat gggcgtctcc ggaggagagg 120

agggtgcccg caatggcccg tccttgatgc ccgggggctc cttcgaggca tacaagtaca 180

ttgaagatat tcttctcaag gtggctgctc aggtacctga cagcggcccg tgcgtcacat 240

atattggcaa aagtggatca ggcaacttcg tcaagatggt tcacaatgga attgaatatg 300

gtgacatgcn acttatcgcc gaggctt 327

<210> 163
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 163

cgagtggtac gagaacacgg agaggangga gaaggcgatg gaggagcgcg ggctcctata 60

tcttggcatg ggcgtctccg gaggagagga nggtgcccgc aatggcccgt ccttgatgcc 120

cgggggctcc ttcgaggcat acaagtacat tgaagatatt cttctcaagg tggctgctca 180

ggtacctgac agcggcccgt gcgtcacata tattggcaaa ggtggatcag gcaactttgt 240

caagatggtt cacaatggga ttgaatatgg tgacatgcaa cttatcgctg aggcttatga 300

tgttctcaag tcggtgggta actaacaaac a 331

<210> 164
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 164

cacggagagg agggagaagg ccatggagga gcgcggcctc ctgtatcttg gcatgggtgt 60

ctctggagga gaggganggtg cccgcaacgg cccgtccttg atgcccggag gctcgttcga 120

ggcttacaag tacgtcgaag acattgtcct caaggtggct gctcaggtcc ctgacagtgg 180

cccgtgtgtc acgtacattg gcaaaggtgg atcgggcaac tttgtcaaga tggttcacaa 240

cggaatcgag tatggcgata tgcagctgat ttccgaggca tacgacgttc tcaagtc 297

<210> 165
<211> 324
<212> DNA
<213> Zea mays

<400> 165

ggtggccgga cggtggtggc atcgccaatt caactccgca tctgaatcgg cactcggcag 60

cgcgccagtc catagtgtag gaggaggaga tggcgctcac aagaatcggt cttgctggcc 120

ttgcggtcat ggggcagaac ccttgcctca agcattgcag agaaagggtt ccccatctct 180

gtgtacaaca ggacaacctc caaggtggac gagaccgtgc agcgtgccaa ggcagaagga 240

aaccttcccg tctacggctt ccatgacccc gcgtcctttg tgaactccat tcagaagcca 300

cgggtggtga tcatgctcgt caag 324

<210> 166
<211> 287
<212> DNA
<213> Zea mays

<400> 166

gccacgggtg gtgatcatgc tcgtcaaggc cggcgacaca gttgtgcaga ccatcgcgac 60

gctcgcagct cacttggagc agggcgactg cgtcatcgat gggggggaacg agtggtacga 120

gaacacggag aggagggaga aggccatgga ggagcgcggc ctcctgtatc ttggcatggg 180

tgtctctgga ggagaggagg gtgcccgcaa cggcccgtcc ttgatgcccg gaggctcgtt 240

cgaggcttac aagtacgtcg aagacattgt cctcaaggtg gctgctc 287

<210> 167
<211> 283
<212> DNA
<213> Zea mays

<400> 167

ccgcatctga atcggcactc ggcagcgcgc cactccatag tgtaggagga gatggcgctc 60

acaagaatcg gtcttgctgg ccttgcggtc atggggcaga accttgccct caacattgca 120

gagaaagggt tccccatctc tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg 180

cagcgtgcca aggcagaagg aaaccttccc gtctacggct tccatgaccc cgcgtccttt 240

gtgaagtcca ttcagaagcc acgggtggtg atcatgctcg tca 283

<210> 168
<211> 285
<212> DNA
<213> Zea mays

<400> 168

ggtggacgag accgtgcagc gtgccaaggc agaaggaaac cttcccgtct acggcttcca 60

tgaccccgcg tcctttgtga agtccattca gaagccacgg gtggtgatca tgctcgtcaa 120

ggccggcgcg ccagttgacc agaccatcgc gacgctcgca gctcacttgg agcagggcga 180

ctgcatcatc gatgggggga acgagtggta cgagaacacg gagatgaggg agaaggccat 240

ggaggatcgc ggcctcctgt atcttggcat gggtgtctct ggagg 285

<210> 169
<211> 311
<212> DNA
<213> Zea mays

<400> 169

gccggaggtg gtggcatcgc aattcaactc cgcatctgaa tcggcactcg gcagcgcgcc 60

actccatagt gtaggaggag gagatggcgc tcacaagaat cggtcttgct ggccttgcgg 120

tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc tctgtgtaca 180

acaggacaac ctccaaggtg gacgagaccg tgcagcgtgc caaggcagaa ggaaaccttc 240

ccgtctacgg cttccatgac cccgcgtcct ttgtgaactc cattcagaag ccacgggtgg 300

tgatcatgct c 311

<210> 170
<211> 290
<212> DNA
<213> Zea mays

<400> 170

aattcaactc cgcatctgaa tcggcactcg gcagcgcgcc agctccatag cgaggagatg 60

gcgctcacaa gaatcggtct tgctggcctt gcggtcatgg ggcagaacct tgccctcaac 120

attgcagaga tagggttccc catctctgtg tacaacagga caacctccaa ggtggacgag 180

accgtgcagc gtgccaaggc agaaggaaac cttcccgtct acggcttcca tgaccccgcg 240

tcctttgtga agtccattca gaagccacgg gtggtgatca tgctcgtcaa 290

<210> 171
<211> 275
<212> DNA
<213> Zea mays

<400> 171

gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcca gttgaccaga ccatcgcgac 60

gctcgcagct cacttggagc agggcgactg catcatcgat gggggggaacg agtggtacga 120

gaacacggag aggagggaga aggccatgga ggagcgcggc ctcttgtatc ttggcatggg 180

tgtctctgga ggagaggagg gtgcccgcaa cggcccgtcc ttgatgcccg gatgctcgtt 240

cgacgcttac aagtacgtcg aagacattgt tctca 275

<210> 172
<211> 296
<212> DNA
<213> Zea mays

<400> 172

gagaggtagg tggccggacg gtggtggcat cgccaattca actccgcatc tgaatcggca 60

ctcggcagcg cgccactcca tagtgtagga ggaggagatg gcgctcacaa gaatcggtct 120

tgctggcctt gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc 180

catctctgtg tacaacagga caacctccaa ggtggacgag accgtgcagc gtgccaaggc 240

agaaggaaac cttcccgtct acggcttcca tgaccccgcg tcctttgtga actcca 296

<210> 173
<211> 268
<212> DNA
<213> Zea mays

<400> 173

gcgactgcat catcgatggg gggaacgagt ggtacgagaa cacggagagg agggagaagg 60

ccatggagga gcgcggcctc ttgtatcttg gcatgggtgt ctctggagga gaggagggtg 120

cccgcaacgg cccgtccttg atgcccggag gctcgttcga cgcttacaag tacgtcgaag 180

acattgttct caaggtggct gctcaggtcc ctgacagtgg cccgtgtgtc acgtacattg 240

gcaaaggtgg atcgggcaac tttgtcaa 268

<210> 174
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 174

acaagtacat tgaagatatt cttctcaagg tggctgctca ggtacctgac agcggcccgt 60

gcgtcacata tattggcaaa ggtggatcag gcaacttcgt caagatggtt cacaatggaa 120

ttgaatatgg tgacatgcaa cttatcgccg aggcttatga tgttctcaag ttcggtgggt 180

aagctcacaa acngcgagct gcatcaggtg ttctctgagt ggaacaaggg tgagctcctc 240

agtttcttga ttgagatcac ggccgacatc ttggta 276

<210> 175
<211> 297
<212> DNA
<213> Zea mays

<400> 175

gtaggtggcc ggacggtggt gggctcgcca attcaactcc gcatctgaat cggcactcgg 60

cagcgcgcca gctccatagt gtaggaggag gtgatggcgc tcacaagaat cggtcttgct 120

ggccttgcgg tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc 180

tctgtgtaca acaggacaac ctccaaggtg gacgagaccg tgcagcgtgc caaggcagaa 240

ggaaaccttc ccgtctacgg cttccatgac cccgcgtcct ttgtgaactc cattcag 297

<210> 176
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 176

acaagtacat tgaagatatt cttctcaagg tggctgctca ggtacctgac agcggcccgt 60

gcgtcacata tattggcaaa ggtggatcag gcaacttcgt caagatggtt cacaatggaa 120

ttgaatatgg tgacatgcaa cttatcgccg aggcttatga tgttctcaag tccggtgggt 180

aagctcacaa acngcgagct gcatcaggtg ttctctgagt ggaacaaggg tgagctcctc 240

agtttctgat tgagatcacg gccgacatct tggt 274

<210> 177
<211> 274
<212> DNA
<213> Zea mays

<400> 177

ggtggccgga cggtggtggc atcgccaatt caactccgca tctgaatcgg cactcggcag 60

cgcgccactc catagtgtag gaggagatgg cgctcacaag aatcggtctt gctggccttg 120

cggtcatggg gcagaacctt gccctcaaca ttgcagagaa agggttcccc atctctgtgt 180

acaacaggac aacctccaag gtggacgaga ccgtgcagcg tgccaaggca gaaggaaacc 240

ttcccgtcta cggcttccat gaccccgcgt cctt 274

<210> 178
<211> 271
<212> DNA
<213> Zea mays

<400> 178

cggtggccgg acggtggtgg catcgccaat tcaactccgc atctgaatcg gcactcggca 60

gcgcgccact ccatagtgta ggaggaggag atggcgctca caagaatcgg tcttgctggc 120

cttgcggtca tggggcagaa ccttgccctc aacattgcag agaaagggtt ccccatctct 180

gtgtacaaca ggacaacctc caaggtggac gagaccgtgc agcgtgccaa ggcagaagga 240

aaccttcccg tctacggctt ccatgacccc g 271

<210> 179
<211> 258
<212> DNA
<213> Zea mays

<400> 179

gggttcccca tctctgtgta caacaggaca acctccaagg tggacgagac cgtgcagcgt 60

gccaaggcag aaggaaacct tcccgtctac ggcttccatg accccgcgtc ctttgtgaac 120

tccattcaga agccacgggt ggtgatcatg ctcgtcaagg ccggcgcgcc agttgaccag 180

atcatcgcga cgctcgcagc tcacttggag cagggcgact gcatcatcga tgggggggaac 240

gagtggtacg agaacacg 258

<210> 180
<211> 270
<212> DNA
<213> Zea mays

<400> 180

ggccggcgcg ccagttgacc agaccatcgc gacgctcgca gctcacttgg agcagggcga 60

ctgcatcatc gatgggggga acgagtggta cgagaacacg gagaggaggg agaaggccat 120

ggaggagcgc ggcctcttgt atcttggcat gggtgtctct ggaggagagg agggtgcccg 180

caacggcccg tccttgatgc ccggaggtcg ttcgacgctt acaagtacgt cgagacattg 240

ttctcaaggt ggctgctcag gtccctgaca 270

<210> 181
<211> 251
<212> DNA
<213> Zea mays

<400> 181

gtgatcatgc tcgtcaaggc cggcgcgcca gtagaccaga ccatcgcgac gctcgcagct 60

cacttggagc agggcgactg catcatcgat gggggggaacg agtggtacga gaacacggag 120

aggagggaga aggccatgga ggagcgcggc ctcttgtatc ttggcatggg tgtctcttga 180

ggagaagaag gtgcccgcaa cggcccgtcc ttgatgcccg ggagctcgtt cgacgcttac 240

aagtacgtcg a 251

<210> 182
<211> 224
<212> DNA
<213> Zea mays

<400> 182

gccggaggtg gtggcatcgc caattcaact ccgcatctga atcggcactc ggcagcgcgc 60

cagctccata gtgtaggagg agatggcgct cacaagaatc ggtcttgctg gccttgcggt 120

catggggcag aaccttgccc tcaacattgc agagaaaggg ttccccatct ctgtgtacaa 180

caggacaacc tccaaggtgg acgagaccgt gcagcgtgcc aagg 224

<210> 183
<211> 233
<212> DNA
<213> Zea mays

<400> 183

gccggaggtg gtggcatcgc caattcaact ccgcatctga atcggcactc ggcagcgcgc 60

cactccatag tgtaggagga ggagatggcg ctcacaagaa tcggtcttgc tggccttgcg 120

gtcatggggc agaaccttgc cctcaacatt gcagagaaag ggttccccat ctctgtgtac 180

aacaggacaa cctccaaggt ggacgagacc gtgcagcgtg ccaaggcaga agg 233

<210> 184
<211> 235
<212> DNA
<213> Zea mays

<400> 184

ggccggacgg tggtggcatc gccaattcaa ctccgcatct gaatcggcac tcggcagcgc 60

gccagtccat agtgtatgag gagatggcgc tcacaagaat cggtcttgct ggccttgcgg 120

tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc tctgtgtaca 180

acaggacaac ctccaaggtg gacgagaccg tggcacgtgc caaggcagaa ggaaa 235

<210> 185
<211> 263
<212> DNA
<213> Zea mays

<400> 185

cttccctgcc cgattggcga tttaagtggt gggggaggga aggacgatgg tcagtgaaag 60

agaggtaggt ggccggacgg tggtggcatc gccaattcaa ctccgcatct gaatcggcac 120

tcggcagcgc gccagctcca tagtgtagga ggagatggcg ctcacaagaa tcggtcttgc 180

tggccttgcg gttatggggc agaaccttgc cctcaacatt gcagagaaag ggttccccat 240

ctctgtgtac aacaggacaa cct 263

<210> 186
<211> 221
<212> DNA
<213> Zea mays

<400> 186

ggccggacgg tggtggcatc gccaattcaa ctccgcatct gaatcggcac tcggcagcgc 60

gccagctcca taggaggagg agatggcgct cacaagaatc ggtcttgctg gccttgcggt 120

catggggcag aaccttgccc tcaacattgc agagaaaggg ttccccatct ctgtgtacaa 180

caggacaacc tccaaggtgg acgagaccgt gcaaggtgcc a 221

<210> 187
<211> 294
<212> DNA
<213> Zea mays

<400> 187

cccgaaagcc gccaagcggc tgctgcgcaa ggagcgaaag gcacttccct acccgattgg 60

cgatttaagt ggtgggggag ggaaggccga tggtcagtga aagagaggta ggtggccgga 120

cggaggtggc atcgccaatt caactccgca tctgaatcgg cactcggcag cgcgccagca 180

ccataggagg agatggcgct cacaagaatc ggtcttgctg gccttgcggt catggggcag 240

aaccttgccc tcaacattgc agagaaaggg ttcccgatct ctgtgtacaa cagg 294

<210> 188
<211> 200
<212> DNA
<213> Zea mays

<400> 188

ggccggacgg tggtggcatc gccaattcaa ctccgcatct gaatcggcac tcggcagcgc 60

gccagctcca taggaggagg agatggcgct cacaagaatc ggtcttgctg gccttgcggt 120

catgtggcag aaccttgccc tcaacattgc agagaaaggg ttccccatct ctgtgtacaa 180

caggacaacc tccaaggtgg 200

<210> 189
<211> 154
<212> DNA
<213> Zea mays

<400> 189

ctccgcatct gcatcggcag cgcgccagct ccataggagg agatggcgct cacaagaatc 60

ggtcttgctg gccttgcggt catggggcag aaccttgccc tcaacattgc agagaaaggg 120

ttccccatct ctgtgtacaa caggacaacc tcca 154

<210> 190
<211> 127
<212> DNA
<213> Zea mays

<400> 190

ggtaggtggc cggacggtgg tggcatcgcc agttcaactc cgcatctgaa tcggcactcg 60

gcagcgcgcc actccatagg aggagatggc gctcacaaga atcggtcttg ctggccttgc 120

ggtcatg 127

<210> 191
<211> 104
<212> DNA
<213> Zea mays

<400> 191

gccggacggt ggtggcatcg ccaattcaac tccgcatctg aatcggcact cggcagcgcg 60

ccagctccat agtgtaggag gagatggcgc tcacaagaat cggt 104

<210> 192
<211> 162
<212> DNA
<213> Zea mays

<400> 192

ggcaccttcc ctgcccgatt ggcgatttaa gtggtggggg agggaaggcc gatggtcagt 60

gaaagagagg taggtggccg gacggtggtg gcatcgccaa ttcaactccg catctgaatc 120

ggcactcggc agcgcgccag ctccatagtg atagaggagg ag 162

<210> 193
<211> 87
<212> DNA
<213> Zea mays

<400> 193

gcatacaagt acattgaaga tattcttctc aaggtggctg ctcaggtacc tgacagcggc 60

cgtgcgtcac atatatggca aggtgga 87

<210> 194
<211> 91
<212> DNA
<213> Zea mays

<400> 194

cgggtggctg ctcaggtacc tgaccgcggc ccgtgcgtca catatattgg caaaggtgcc 60

tcaggcaact tcgtcaagat ggttcacaat c 91

<210> 195
<211> 330
<212> DNA
<213> Zea mays

<400> 195

ccgcgctgca ggggcgacgc aaggccgagc gctcctcgat ccagatccaa ggtaggagat 60

ggctctcacg agaattggcc tcgccggcct cgcggtcatg ggacagaacc ttgccctcaa 120

catcgcggag aaagggttcc ccatctcggt ctacaacagg acaacctcca aggttgatga 180

gaccgtgcag cgtgccaagg tcgaaggaaa cctcccagtg tttggtttcc acgaccccgc 240

gtccttcgtg agctccatcc agaagccccg tgtcgtcatc atgctcgtca aggctggggc 300

gccggtggac cagaccattg ccacgctcgc 330

<210> 196
<211> 323
<212> DNA
<213> Zea mays

<400> 196

tccagatcca aggtaggaga tggctctcac gagaattggc ctcgccggcc tcgcggtcat 60

gggacagaac cttgccctca acatcgcgga gaaagggttc cccatctcgg tctacaacag 120

gacaacctcc aaggttgatg agaccgtgca gcgtgccaag gtcgaaggaa acctcccagt 180

gtttggtttc cacgaccccg cgtccttcgt gagctccatc cagaagcccc gtgtcgtcat 240

catgctcgtc aaggctgggg cgccggtgga ccagaccatt gccacgctcg cggcgcacct 300

tgatcagggg gactgtatcg tcg 323

<210> 197
<211> 350
<212> DNA
<213> Zea mays

<400> 197

agcgtgccaa ggtcgaagga aacctcccag tgtttggttt ccacgacccc gcgtccttcg 60

tgagctccat ccagaagccc cgtgtcgtca tcatgctcgt caaggctggg gcgccggtgg 120

accagaccat tgccacgctc gcggcgcacc ttgatcaggg ggactgtatc gtcgatggtg 180

gcaacagtgg tacgagaaca cggagaagag ggagaaggcg atggaagagc gcgggctcct 240

atatcttggc atgggcgtct ccggaggaga ggacggtgcc cgcaatggct cgtccttgat 300

gcccgggggc tccttcgagg catacaagta cattgaagat attcttctca 350

<210> 198
<211> 317
<212> DNA
<213> Zea mays

<400> 198

gcaaggccga gcgctcctcg atccagatcc aaggtaggag atggctctca cgagaattgg 60

cctcgccggc ctcgcggtca tgggacagaa ccttgccctc aacatcgcgg agaaagggtt 120

ccccatctcg gtctacaaca ggacaacctc caaggttgat gagaccgtgc agcgtgccaa 180

ggtcgaagga aacctcccag tgtttggttt ccacgacccc gcgtccttcg tgagctccat 240

ccagaagccc cgtgtcgtca tcatgctcgt caaagctggg gcgccggtgg accagaccat 300

tgccacgctc gcggcgc 317

<210> 199
<211> 299
<212> DNA
<213> Zea mays

<400> 199

ctctcgcctc ggcttggcag tcggcactcc ctctccaccg cgctgcaggg gcgacgcaag 60

gccgagcgct cctcgatcca gatccaaggt aggagatggc tctcacgaga attggcctcg 120

ccggcctcgc ggtcatggga cagaaccttg ccctcaacat cgcggagaaa gggttcccca 180

tctcggtcta caacaggaca acctccaagg ttgatgagac cgtgcagcgt gccaaggtcg 240

aaggaaacct cacagtgttt ggtttccacg accccgcgtc cttcgtgagc tccatccag 299

<210> 200
<211> 279
<212> DNA
<213> Zea mays

<400> 200

tgtcggcact ccctctccac cgcgctgcag gggcgacgca aggccgagcg ctcctcgatc 60

cagatccaag gtaggagatg gctctcacga gaattggcct cgccggcctc gcggtcatgg 120

gacagaacct tgccctcaac atcgcggaga aagggttccc catctcggtc tacaacagga 180

caacctccaa ggttgatgag accgtgcagc gtgccaaggt cgaaggaaac ctcccagtgt 240

ttggtttcca cgaccccgcg tccttcgtga gctccatcc 279

<210> 201
<211> 321
<212> DNA
<213> Zea mays

<400> 201

gtaggctggc gctgcagatc aaaaggctct cgcctcggct tggcagtcgg cactccctct 60

ccaccgcgct gcaggggcga cgcaaggccg agcggtcctc gatccaggtc caaggtagga 120

gatggctctc acgaggaatg gcctcgccgg cctcgcggtc atgggacaga accttgccct 180

caacatcgcg gagaaagggt tccccatctc ggtctacaac aggacaacct ccaaggttga 240

tgagaccgtg cagcgtgcca aggtcgaaag aaacctccca gtgtttggtt tccacgaccc 300

cgcgtccttc gtgagctcca t 321

<210> 202
<211> 267
<212> DNA
<213> Zea mays

<400> 202

cccatctcgg tctacaacag gacgacctcc aaggttgatg agaccgtgca gcgtgccaag 60

gtcgaaggaa acctccccgt gtttggtctc cacgaccccg cgtccttcgt gagctccatc 120

cagaagcccc gtgtcgtcat catgctcgtc aaggctgggg cgccggtgga ccagaccatt 180

gccacgctcg cggcgcacct ggatcagggg gactgtatcg tcgatggtgg caacgagtgg 240

tacgagaaca cggagaggaa ggagaag 267

<210> 203
<211> 266
<212> DNA
<213> Zea mays

<400> 203

gctgcagatc aaaaggctct cgcctcggct tggcagtcgg cactccctct ccaccgcgct 60

gcaggggcga cgcaaggccg agcgctcctc gatccagatc caaggtagga gatgtgtctc 120

acgagaattg gcctcgccgg cctcgcggtc atgggacaga accttgccct caacatcgcg 180

gagaaagggt tccccatctc ggtctacaac aggacgacct ccaaggttgg gaagaccgtg 240

cagcgtgcca aggtcgaagg aaacct 266

<210> 204
<211> 264
<212> DNA
<213> Zea mays

<400> 204

cgctgcagat caaaaggctc tcgcctcggc ttggcagtcg gcactccctc tccaccgcgc 60

tgcaggggcg acgcaaggcc gagcgctcct cgatccagat ccaaggtagg agatggctct 120

cacgagaatt ggcctcgccg gcctcgcggt catgggacag aaccttgccc tcaacatcgc 180

ggagaaaggg ttccccatct cggtctacaa caggacaacc tccaaggttg atgagaccgt 240

gcagcgtgcc aaggtcgaag gaaa 264

<210> 205
<211> 294
<212> DNA
<213> Zea mays

<400> 205

aacgtaggct ggcgctgcag atcaaaaggc tctcgcctcg gcttggcagt cggcactccc 60

tctccaccgc gctgcagggg cgacgcaagg ccgagcgctc ctcgatccag atccaaggta 120

ggagatggct ctcacgagaa tgcgcctcgc cggcctcgcg gtcatgggac agaaccttgc 180

cctcaacatc gcggagaaag ggttccccat ctcggtctac aacaggacaa cctccaaggt 240

tgatgagacc gtgcagcgtg ccaaggtcga aggaaacctc ccagtgtttg gttt 294

<210> 206
<211> 150
<212> DNA
<213> Zea mays

<400> 206

cagaactccg tgtcgtcata tgctcgtcaa ggctggggcg ccggtggacc agaccattgc 60

cacgctcgcg gcgcaccttg atcaggggga ctgtatcgtc gatggtggca acgagtggta 120

cgagaacacg gagaggaggg agaaggcgat 150

<210> 207
<211> 161
<212> DNA
<213> Zea mays

<400> 207

caaaaggctc tcgcctcggc ttggcagtcg gcactccctc tccaccgcgc tgcaggggcg 60

acgcaaggcc gagcgctcct cgatccagat ccaaggtagg agatggctct cacgagaatt 120

ggcctcgccg gcctcgcggt catgggacag aaccttgccc t 161

<210> 208
<211> 161
<212> DNA
<213> Zea mays

<400> 208

caaaaggctc tcgcctcggc ttggcagtcg gcactccctc tccaccgcgc tgcaggggcg 60

acgcaaggcc gagcgctcct cgatccagat ccaaggtagg agatggctct cacgagaatt 120

ggcctcgccg gcatcgcggt catgggacag aaccttgccc t 161

<210> 209
<211> 205
<212> DNA
<213> Zea mays

<400> 209

accttgccct caacatcgcg gagaaagggt tccccatctc ggtctacaac aggacgacct 60

ccaaggttga tgagaccgtg cagcgtgcca aggtcgaagg aaacctcccc gtgtttggtt 120

tccacgaccc cgcgtccttc gtgagctccc atccagaagc cccgtgtcgt catcatgctc 180

gtcaaggctg gggcgccggt ggacc 205

<210> 210
<211> 270
<212> DNA
<213> Glycine max

<400> 210

ggccggcgcc cccgtcgacc aaaccatcgc cgccctctcc gaccacctcg accccggcga 60

ctgcatcatc gacggcggca acgagtggta cgagaacacc gagcgccgca tgagcctcgt 120

cgccgacaaa ggcctcctct acctcggcat gggcgtctcc ggcggcgaag acggcgcacg 180

ccacggcccc tccctcatgc ccggtgggtc ccaccaggcc tactccaacg tccaggacat 240

cctccacaaa atcgccgccc aggtcgacga 270

<210> 211
<211> 165
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 211

angagtgnnt acgagaacac cgagcgccgc atgaacctcg tcgccgacaa aggcctcctc 60

tanctcggca tgggcgtctc cggcggcgaa gacggcgcac gccacggccc ctccctcatg 120

cccggtgggt cccaccatgc ctactccaac gtgccagnac atcct 165

<210> 212
<211> 248
<212> DNA
<213> Glycine max

<400> 212

ggcgtatgca agggaaatgg tgtatagaca ggctgcgtgg catagaatcg tggggttggc 60

ggtttcggct gggattagta ctagcggaat gtgtgccagt cttgcttggt ttgataccta 120

tcggagggca agacttccgg caaaccttgt ccaggctcag agggacttgt ttggggcgca 180

tacttacgag agggttgatc gccctggggc ttttcatacc gagtggacga aactcgctcg 240

caatagtg 248

<210> 213
<211> 251
<212> DNA
<213> Glycine max

<400> 213

ggagtttgca agggaaatgg tgcagagaca ggctgcgtgg atgagggttg tggggttggc 60

ggtttcggct gggattagta ctcccggaat gtgtgccagt cttgcttact ttgataccta 120

tcggagggca agacttccgg caaaccttgt ccaggctcag agggacttgt ttggggcgca 180

tacttacgag agggttgatc gccctggggc ttttcatacc gagtggacga aactcgctcg 240

caatagtggg g 251

<210> 214
<211> 272
<212> DNA
<213> Glycine max

<400> 214

gataagaagc agttgatcga tgacgtcagg caggctctga atgcttccaa gattagcagt 60

tatgctcagg ggatgaattt gttgagggct aagagtaatg agaaaggatg gaacttgaat 120

ttgggggagt tagctaggat tggaagggag ggtgcatcat aagggccgtg ttcttggacc 180

ggatcaagaa ggcttatcag aggaacccta atttggcgag tttgattgtg gacccggagt 240

atgcaaggcg aatagtccag agacacgctg cg 272

<210> 215
<211> 196
<212> DNA
<213> Zea mays

<400> 215

gccacgcgtc cgcggacgcg tggattccat gtgagggcat cagctcgggt tgacaaattc 60

tcaaagagtg acatcatcgt gtcccttcg attctgtctg caaactttgc gaagcttggt 120

gatcaggtaa aagctgtgga ggtggcagga tgcgactgga ttcatgtcga tgtcatggac 180

gggcgctttg tgccaa 196

<210> 216
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 216

tgcgtcatct acgcgcagga aggcgttcca agtgagggca tcagctcggg ttgacaagtt 60

ctcaaagagt gatatcaggg tngtcccttc gcatctgtct ggaaactgtc gcaaagctat 120

gttgatcagg tagaagcgtg ggaggtggca agatgtgact ggattctgtc gatgtcatgg 180

acgggcgctg tgtgcgaaat atcacaattg gacctgtggt tgttgatgct ctgcgtcctg 240

tgactgatct tccattggat gtacatctga tgattgtgga acctgagcag cgagtcactg 300

attgtatcaa ggcangtgct gatattgtta gtgtccactg tgaacagaca tcg 353

<210> 217
<211> 312
<212> DNA
<213> Zea mays

<400> 217

agcgactcca ctcactgcaa ttgattatgt tcttgatgtt gttgacctgg tgctgattat 60

gtctgtgaat cctgggtttg gtggccagag ctttatcgag agtcaagtaa agaaaattgc 120

agaactgaga aggttatgtg cagagaaggg agtgaacccc tggattgagg ttgatggtgg 180

tgttggtccg aaaaatgcct acaaggttat tgaagctggc gcaaatgcca ttgtcgcagg 240

ttctgcagtt tttggggctc cagactacgc tgaagctatc aaaggaataa agaccagcca 300

aagacctcta gc 312

<210> 218
<211> 312
<212> DNA
<213> Zea mays

<400> 218

gctctgcgtc cagtgactga tcttccgttg gatgtacatc tgatgattgt ggaacctgag 60

cagcgagtcc ccgattttat caaggcaggt gctgatattg ttagtgtcca ctgtgaacag 120

acatcgacca tccatttgca ccgaacagtc aatcagatta aaagtctagg agcaaaggca 180

ggagttgttt tgaatccagc gactccactc actgcaattg attatgttct tgatgttgtt 240

gacctggtgc tgattatgtc tgtgaatcct gggtttggtg gccagagctt tatcgagagt 300

caagtaaaga aa 312

<210> 219
<211> 314
<212> DNA
<213> Zea mays

<400> 219

cctgagcagc gagtccccga ttttatcaag gcaggtgctg atattgttag tgtccactgt 60

gaacagacat cgaccatcca tttgcaccga acagtcaatc agattaaaag tctaggagca 120

aaggcaggag ttgttttgaa tccagcgact ccactcactg caattgatta tgttcttgat 180

gttgttgacc tggtgctgat tatgtctgtg aatcctgggt ttggtggcca gagctttatc 240

gagagtcaag taaagaaaat tgcagaactg agagagttat gtgcagagaa gggagtgaac 300

ccctggattg aggt 314

<210> 220
<211> 305
<212> DNA
<213> Zea mays

<400> 220

ggcaggtgct gatattgtta gtgtccactg tgaacagaca tcgaccatcc atttgcaccg 60

aacagtcaat cagattaaaa gtctaggagc aaaggcagga gttgtttgaa tccagcgact 120

ccactcactg caattgatta tgttcttgat gttgttgacc tggtgctgat tatgtctgtg 180

aatcctgggt ttggtggcca gagctttatc gagagtcaag taaagaaaat tgcagaactg 240

agaaggttat gtgcagagaa gggagtgaac ccctggattg aggttgatgg tggtgttggt 300

ccgaa 305

<210> 221
<211> 280
<212> DNA
<213> Zea mays

<400> 221

atccatttgc accgaacagt caatcagatt aaaagtctag gagcaaaggc aggagttgtt 60

ttgaatccag cgactccact cactgcaatt gattatgttc ttgatgttgt tgacctggtg 120

ctgattatgt ctgtgaatcc tgggtttggt ggccagagct ttatcgagag tcaagtaaag 180

aaaattgcag aactgagaag gttatgtgca gagaagggag tgaacccctg gattgaggtt 240

gatggtggtg ttggtccgaa aaatgcctac aaggttattg 280

<210> 222
<211> 284
<212> DNA
<213> Zea mays

<400> 222

ctgtctgcaa actttgcgaa cgttggtgat caggtaaaag ctgtggaggt ggcaggatgc 60

gactggattc atgtcgatgt catggacggg cgctttgtgc caaacatcac aattggaccc 120

ttggttgttg atgctctgcg tccagtgact gatcttccgt tggatgtaca tctgatgatt 180

gtggaacctg agcagcgagt ccccgatttt atcaaggcag gtgctgatat tgttagtgtc 240

cactgtgaac agacatcgac catccatttg caccgaacag tcaa 284

<210> 223
<211> 218
<212> DNA
<213> Zea mays

<400> 223

tgttagtgtc cactgtgaac agacatcgac catccatttg caccgaacag tcaatcagat 60

taaaagtcta ggagcaaagg caggagttgt tttgaatcca gcgactccac tcactgcaat 120

tgattaggtt cttgatgtgg ttgacctggt gctgattatg tctgtgaatc ctgggtttgg 180

tggccagagc tttatcgaga gtcaggtaaa gaaaattg 218

<210> 224
<211> 249
<212> DNA
<213> Zea mays

<400> 224

tatcaaggca ggtgctgata ttgttagtgt ccactgtgaa cagacatcga ccatccattt 60

gcaccgaaca gtcaatcaga ttaaaagtct aggagcaaag gcaggagttg ttttgaatcc 120

agcgactcca ctcactgcaa ttgattatgt tcttgatgtt gtcgccctgg tgctgattat 180

gtctgtaaat cctgggtttg gtggccagag ctttatcgag agtcaagtaa agaaaattgc 240

agaactgag 249

<210> 225
<211> 316
<212> DNA
<213> Zea mays

<400> 225

gataaggtgc gcacactgag aaagaagtac ccttcccttg acatagaggt tgatggtggt 60

ctaggtcctt caaccataga cgtggccgca tctgctgggg ccaattgcat cgtcgctgga 120

agctctatat ttggcgctgc ggacccagga gccatcatat ctgtgctgag gaagagcgtc 180

gagggctctc agaacaaaaa ctgattttgg tgtttctgct gtaaagtact ccctccgttt 240

ttttttattc gtcgcgtttt agttcaaaca tgaactagcg gacgactgat attcgagaat 300

ggagggagta cttcga 316

<210> 226
<211> 301
<212> DNA
<213> Zea mays

<400> 226

ggttgatggt ggtctaggtc cttcaaccat agacgtggcc gcatctgctg gggccaattg 60

catcgtcgct ggaagctcta tatttggcgc tgcggaccca ggagccatca tatctgtgct 120

gaggaagagc gtcgagggct ctcagaacaa aaactgattt tggtgtttct gctgtaaagt 180

actccctccg ttttttttatt cgtcgcgttt tagttcaaac atgaactagc ggacgactga 240

tattcgagaa tggagggatt acttcgaccc tgcacgtcag atgagctgat cctcacattg 300

c 301

<210> 227
<211> 247
<212> DNA
<213> Zea mays

<400> 227

cggttattga agctggcgca aatgccattg tcgcaggttc tgcagttttt gcggtgtcca 60

gactaacact gcagctatca aaggaataca gaccagccaa agacctctag ctgtagccgc 120

ataaggcgct ggacgtgtaa tcatttactc tgtgcaagtt taccagtgat gcgatctgta 180

tagttgtgtg tcttgtccaa ccatacgtat accgagatga aaagagacgg aggcagtgaa 240

gaactat 247

<210> 228
<211> 319
<212> DNA
<213> Zea mays

<400> 228

attgagagag ccagagaggt gggcagatgg cgacaccgtc gtcgtcgctt tgctccagct 60

tcgcctccct gcggaccgcc tccatcggcc acccccgcgg catcgcgtca tctacgccca 120

ggaaggcgtt ccaagtgagg gcatcagctc gggttgacaa gttctcaaag agtgatatca 180

ttgtgtcccc ttcgattctg tctgcaaact tcgccaagct tggtgatcag gtaaaagccg 240

tggaggtggc aggatgtgac tggattcatg tcgatgtcat ggacgggcgc tttgtgccaa 300

atatcacaat tggaccttt 319

<210> 229
<211> 301

<212> DNA
<213> Zea mays

<400> 229

gagagaggcg cgcagatggc gacgccgtcg tcgtcgcttt gctccagctt cgcctccctg 60

cggaccgcct ccatcggcca cccccgtggc atcgcctcct ccacgcccag gaaggcattc 120

catgtgaggg catcagctcg ggttgacaaa ttctcaaaga gtgacatcat cgtgtccccct 180

tcgattctgt ctgcaaactt tgcgaacttg gtgatcaggt aaaagctgtg gaggtggcag 240

gatgcgactg gattcatgtc gatgtcatgg acgggcgctt tgtgccaaac atcacaattg 300

g 301

<210> 230
<211> 268
<212> DNA
<213> Zea mays

<400> 230

cgcagatggc gacgccgtcg tcgtcgcttt gctccagctt cgcctccctg cggaccgcct 60

ccatcggcca cccccgtggc atcgcctcct ccacgcccag gaaggcattc catgtgaggg 120

catcagctcg ggttgacaag ttctcaaaga gtgacatcat cgtgtccccct tcgattctgt 180

ctgcaaactt tgcgaacttc ggtgatcagg taaaagctgt ggaggtggca ggatgcgact 240

ggattcatgt cgatgtcatg gatgggcg 268

<210> 231
<211> 256
<212> DNA
<213> Zea mays

<400> 231

aagcgtcgtc gtcgctttgc tccagcttcg cctccctgcg gaccgcctcc atcggccacc 60

cccgtggcat cgcctcctcc acgcccagga aggcattcca tgtgagggca tcagctcggg 120

ttgacaaatt ctcaaagagt gacatcatcg tgtcccttc gattctgtct gcaaactttg 180

cgaagcttgg tgatcaggta aaagctgtgg aggtggcagg cggcgactgg attcatgtcg 240

atgtcatgga cgggcg 256

<210> 232
<211> 319
<212> DNA
<213> Zea mays

<400> 232

gctcttgcaa caagccaaac aacccagtgg ctgctagccg agacagggga tagattgaga 60

gagaggcgcg cagatggcga cgccgtcgtc gtcgctttgc tccagcttcg cctccctgcg 120

gaccgcctcc atcggccacc cccgtggcat cgcctcctcc acgcccagga aggcattcca 180

tgtgagggca tcagctcggg ttgacaaatt ctcaaagagt gacatcatcg tgtcccccttc 240

gattctgtct gcaaactttg cgaactctgg tgatcaggta aaagctgtgg aggtggcagg 300

atgcgactgg attcatgtc 319

<210> 233
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 233

ccagtggctg ctagccgaga cggggataga ttgacagaca ggcgcgcaga tcgcgacgcc 60

gtcgtcgtcg ctttgctcca gcttcgcctc cctgcggacc gcctccatcg gccacccccg 120

tggcatcgcc tcctccacgc ccagtcaagg cattccatgt gagggcatca gctcgggttc 180

acaaattctc aaagagtgac atcatcgtgt ccccttcgat tctgtctgca aactttgcga 240

acttggtgat caggtanaag ctgtggaggt ggcaggatgc gactgga 287

<210> 234
<211> 261
<212> DNA
<213> Zea mays

<400> 234

agaggggata gattgagaga gccagagagg tgggcagatg gcgacaccgt cgtcgtcgct 60

ttgctccagc ttcgcctccc tgcggaccgc ctccatcggc caccccgcg gcatcgcgtc 120

atctacaccc aggaaggcgt tccaagtgag ggcatcagct cgggttgaca agttctcaaa 180

gagtgatatc attgtgtccc cttcgattct gtctgcaaac ttcgccaagc ttggtgatca 240

ggtaaaagcc gtggaggtgg c 261

<210> 235
<211> 299
<212> DNA
<213> Zea mays

<400> 235

gctcttgcaa caagccaaac aacccagtgg ctgctagccg agacagggga tagattgaga 60

gagaggcgcg cagatggcga cgccgtcgtc gtcgctttgc tccagcttcg cctccctgcg 120

gaccgcctcc atcggccacc cccgtggcat cgcctcctcc acgcccagga aggcattcca 180

tgtgagggca tcagctcggg ttgacaaatt ctcaaagagt gacatcatcg tgtcccccttc 240

gattctgtct gcaaactttg cgaacgttgg tgatcaggta aaagctgtgg aggtggcag 299

<210> 236
<211> 241
<212> DNA
<213> Zea mays

<400> 236

attgacagac aggcgcgcag atggcgacgc cgtcgtcgtc gctttgctcc agcttcgcct 60

ccctgcggac cgcctccatc ggccaccccc gtggcatcgc ctcctccacg cccaggaagg 120

cattccatgt gagggcatca gctcgggttg acaaattctc aaagagtgac atcatcgtgt 180

ccccttcgat tctgtctgca aactttgcga agcttggtga tcaggtaaaa gctgtggagg 240

t 241

<210> 237
<211> 293
<212> DNA
<213> Zea mays

<400> 237

ctcttgcaac aagccaaaca acccagtggc tgctagccga gacaggggat agattgagag 60

agaggcgcgc agatggcgac gccgtcgtcg tcgctttgct ccagcttcgc ctccctgcgg 120

accgcctcca tcggccaccc ccgtggcatc gcctcctcca cgcccaggaa ggcattccat 180

gtgagggcat cagctcgggt tgacaaattc tcaaagagtg acatcatcgt gtcccccttcg 240

attctgtctg caaactttgc gaactgtggt gatcaggtaa aagctgtgga ggt 293

<210> 238
<211> 325
<212> DNA
<213> Zea mays

<400> 238

accaaatcgc ttaccgcccc cgaagcgtct cggttcgcat agcagagctg ctcttgcaac 60

aagccaaaca acccagtggc tgctagccga gacaggggat agattgagag agaggcgcgc 120

agatggcgac gccgtcgtcg tcgctttgct ccagcttcgc ctccctgcgg accgcctcca 180

tcggccaccc ccgtggcatc gcctcctcca cgcccaggaa ggcattccat gtgagggcat 240

cagctcgggt tgacaaattc tcaaagagtg acatcatcgt gtccccttcg attctgtctg 300

caaactttgc gaacgttggt gatca 325

<210> 239
<211> 301
<212> DNA
<213> Zea mays

<400> 239

cgaagctctc ggttcgcata gcagagctgc tcttgcaaca agccaaacaa cccagtggct 60

gctagccgag acaggggata gattgagaga gaggcgcgca gatggcgacg ccgtcgtcgt 120

cgctttgctc cagcttcgcc tccctgcgga ccgcctccat cggccacccc cgtggcatcg 180

cctcctccac gcccaggaag ggattccatg tgagggcatc agctcgggtt gacaaattct 240

caaagagtga catcatcgtg tccccttcga ttctgtctgc aaactttgcg aagcttggtg 300

a 301

<210> 240
<211> 288
<212> DNA
<213> Zea mays

<400> 240

agcagagctg ctcttgcaac aagccaaaca acccagtggc tgctagccga gacaggggat 60

agattgagag agaggcgcgc agatggcgac gccgtcgtcg tcgctttgct ccagcttcgc 120

ctccctgcgg accgcctcca tcggccaccc ccgtggcatc gcctcctcca cgcccaggaa 180

ggcattccat gtgagggcat cagctcgggt tgacaaattc tcaaagagtg acatcatcgt 240

gtccccttcg attctgtctg caaactttgc gaactgtggt gatcaggt 288

<210> 241
<211> 304
<212> DNA
<213> Zea mays

<400> 241

aatcgcttac cgcccccgaa gcgtctcggt tcgcatagca gagctgctct tgcaacaagc 60

caaacaaccc agtggctgct agccgagaca ggggatagat tgagagagag gcgcgcagat 120

ggcgacgccg tcgtcgtcgc tttgctccag cttcgcctcc ctgcggaccg cctccatcgg 180

ccacccccgt ggcatcgcct cctccacgcc caggaaggca ttccatgtga gggcatcagc 240

tcgggttgac aaattctcaa agagtgacat catcgtgtcc ccttcgattc tgtctgcaaa 300

cttt 304

<210> 242
<211> 229
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 242

cataactact ctgccaccaa tccggggagg aatcaaccta gcggtaagcg gacatggcgg 60

cggcgaagat agcgccgtcg atgctctcgt cggactttgc caacctcgct tcggaggctg 120

agcgcatggt ccgcctaggc gccgactggc tacatatgga catcatggat gggcacttcg 180

ttcctaacct gactattggg gctccggtga tccagangct tgagaaata 229

<210> 243
<211> 269
<212> DNA
<213> Zea mays

<400> 243

gctacatatg gacatcatgg atgggcactt cgttcctaac ctgactattg gggctccggt 60

gatccagagc ttgaggaaac ataccaaagc atatttggac tgccatctta tggtcacaaa 120

gccttcagat tacgtagaac catttggaaa ggctggcgct tctggattca cattccatat 180

agaagttgct agagacaact ggcaagatct catccaaagc attaaatcaa agggtatgcg 240

gcctggtgta tcattgaggc caggtactc 269

<210> 244
<211> 385
<212> DNA
<213> Zea mays

<400> 244

ccgggctcaa ccaacgcgtc aggatgtttt gaaccaacca acccaatcaa cggaaattga 60

taacttcctg gaggtggttg acctgtggcg gataaggtcg gtaaacccgg ggttgggggg 120

caaaacctta accaaaagtc aattaaagaa aattgcaaaa ctgaaaaggt aatgtgcaaa 180

aaagggagtg aaccccggga ttgaggttga tggtggtgtt ggtccgaaaa atgcctacaa 240

ggttattgaa gctggcgcaa atgccattgt cgcaagttct gcagtttttg gggctccaga 300

ctacgctgaa gctatcaaag gaataaagac cagccaaaga cctctagctg tagccgcata 360

aagagctgga cgtgtaatca tttac 385

<210> 245
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 245

gaccaagccg tccaatcaag gtggaggcca tggatgggcc ctttgtgcca aacatcacaa 60

ttggaccctg gggtgttgat gctctgcgtc cagtgactga tcttccgttg gatgtacatc 120

tgatgattgt ggaacctgag cagcgagtcc ctgattttat caaggcaggt gctgatattg 180

ctagtgtcca ctgtgaacag acatcgacct tcatttgcac cgaacagtca atcagattaa 240

aagtctagga gcanaggcag ggattgttnt gaatccagcg actccactca ctgcaattga 300

ttacgttctt gatgttgttg acctggtgct gattatgtct gtgaatcctg ggtttgttgg 360

cagagcttta tcgagagtca agtaaggaa 389

<210> 246

<211> 412
<212> DNA
<213> Zea mays

<400> 246

gtgtcccctt cgattctgtc tgcaaacttt gcgaagcttg gtgatcaggt aaaagctgtg 60

gaggtggcag gatgcgactg gattcatgtc gatgtcatgg acgggcgctt tgtgccaaac 120

atcacaattg gacccttggt tgttgatgct ctgcgtccag tgactgatct tccgttggat 180

gtacatctga tgattgtgga acctgagcag cgagtccccg attttatcaa ggcaggtgct 240

gatattgtta gtgtccactg tgaacagaca tcgaccatcc atttgcaccg aacagtcaat 300

cagattaaaa gtctaggagc aaaggcagga gttgttttga atccagcgac tccactcact 360

gcaattgatt acgttcttga tgttgttgac ctggtgctga ttatgtctgt ga 412

<210> 247
<211> 397
<212> DNA
<213> Zea mays

<400> 247

gatgctctgc gtccagtgac tgatcttccg ttggatgtac atctgatgat tgtggaacct 60

gagcagcgag tccctgattt tatcaaggca ggtgctgata ttgttagtgt ccactgtgaa 120

cagacatcga ccatccattt gcaccgaaca gtcaatcaga ttaaaagtct aggagcaaag 180

gcaggagttg ttttgaatcc agcgactcca ctcactgcaa ttgattacgt tcttgatgtt 240

gttgacctgg tgctgattat gtctgtgaat cctgggtttg gtggccagag ctttatcgag 300

agtcaagtaa agaaaattgc agaactgaga aggttatgtg cagagaaggg agtgaacccc 360

tggattgagg ttgatggtgg tgttggtccg aaaaatg 397

<210> 248
<211> 403
<212> DNA
<213> Zea mays

<400> 248

ggaggtggca ggatgcgact ggattcatgt cgatgtcatg gacgggcgct ttgtgccaaa 60

catcacaatt ggacccttgg ttgttgatgc tctgcgtcca gtgactgatc ttccgttgga 120

tgtacatctg atgattgtgg aacctgagca gcgagtcccc gattttatca aggcaggtgc 180

tgatattgtt agtgtccact gtgaacagac atcgaccatc catttgcacc gaacagtcaa 240

tcagattaaa agtctaagag caaaggcagg gaattgtttg aatccagcga cttcacttac 300

tggaattgat tatggtcctg atggtggtga cctggtgctg attatgtctg tgaatcctgg 360

gtttggtggc caaagcttta ttgagagtca agttaaggaa att 403

<210> 249
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 249

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tttgtgccaa atatcacaat tggacctttg gttgttgatg ctctgcgtcc tgtgactgat 120

cttccattgg atgtacatct gatgattgtg gaacctgagc agcgagtccc tgattttatc 180

aaggcaggtg ctgatattgt tagtgtccac tgtgaacaaa catcgaccat ccatttgcac 240

agaacagtca atcagattaa aagtctagga gcaaaagcag gagttgtttt gaatccagcg 300

actccactca atgcaattga ttacattctt gatgttgttg acctggtgtt gattatgtct 360

gtgaatcctg ggtttggtgg ccagagcttt atcgagagtc aagtnaggaa aattgcaga 419

<210> 250
<211> 451
<212> DNA
<213> Zea mays

<400> 250

cgatgtcatg gacgggcgct ttgtgccaaa catcacaatt ggacccttgg ttgttgatgc 60

tctgcgtcca gtgactgatc ttccgttgga tgtacatctg atgattgtgg aacctgagca 120

gcgagtcccc gattttatca aggcaggtgc tgatattgtt agtgtccact gtgaacagac 180

atcgaccatc catttgcacc gaacagtcaa tcagattaaa agtctaggag caaaggcagg 240

agttgttttg aatccagcga ctccactcac tgcaattgat tatgttcttg atgttgttga 300

cctggtgctg attatgtctg tgaatcctgg gtttggtggc cagagcttta tcgagagtca 360

agtaaagaag attgcagaac tgagaaggtt atgtgcagag aagggagtga acccctggat 420

tgaggttgat ggtggtgttg gtcccaaaaa t 451

<210> 251
<211> 389
<212> DNA
<213> Zea mays

<400> 251

cttggtgatc aggtaaaagc tgtggaggtg gcatgatgcg actggattca tgttgatgtc 60

atggatgggc gctttgtggc aaacatcaca attggaccct tggttgttga tgctctgcgt 120

ccagtgactg atcttccgtt ggatgtacat ctgatgattg tggaacctga gcagcgagtc 180

cctgatttta tcaaggcagg tgctgatatt gatagtgtcc actgtgaaca gacatcgacc 240

attcatttgc accgaacagt caatcagatt aaaagtctat gagcaaaggc aggagttgtt 300

gtgaatccag cgactgcact cactgcaatt gattacgttc ttgatgatga tgacctggtg 360

ctgattatgt ctgtgaatcc tgggtttgg 389

<210> 252
<211> 426
<212> DNA
<213> Zea mays

<400> 252

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agcaaaggca ggagttgttt tgaatccagc gactccactc actgcaattg attaggggct 120

tgatgttgtt gacctggtgc tgattagggg ggtgaatcct gcgtttggtg gccagagctt 180

tatcgagagt caagtaaaga aaattgcaga actgagaagg ttatgtgcag agaagggagt 240

gaacccctgg attgaggttg atggtggtgt tggtccgaaa aatgcctaca aggttattga 300

agctggcgca aattctattt tctcaggttc tgcagttttt ggggctccag actacgctga 360

agctatcaaa tggaataaga ccatccaaag acctctagct gtagccgcat aaacaacttg 420

acgtgt 426

<210> 253
<211> 380
<212> DNA
<213> Zea mays

<400> 253

cggacgcgtg ggcggacgcg tgggctgaga aggttatgtg cagagaaggg agtgaacccc 60

tggattgagg ttgatggtgg tgttggtccg aaaaatgcct acaaggttat tgaagctggc 120

gcaaatgcca ttgtcgcagg ttctgcagtt tttggggctc cagactacgc tgaagctatc 180

aaaggaataa agaccagcca aagacctcta gctgtagccg cataaggagc tggacgtgta 240

atcatttact ctgtgcaagt ttaccagtga tgcgatctgt atagatgtgt gtcttgtcca 300

gccatacgta taccggagat gaaaagagac ggaagcagtg aagaaatatc ctttttttt 360

cttctcattt ttcacgaaga 380

<210> 254
<211> 375
<212> DNA
<213> Zea mays

<400> 254

agagagccag agaggtgggc agatggcgac accgtcgtcg tcgctttgct ccagcttcgc 60

ctccctgcgg accgcctcca tcggccaccc ccgcggcatc gcgtcatcta cgcccaggaa 120

ggcgttccaa gtgagggcat cagctcgggt tgacaagttc tcaaagagtg atatcattgt 180

gtccccttcg attctgtctg caaacttcgc caagcttggt gatcaggtaa aagccgtgga 240

ggtggcagga tgtgactgga ttcatgtcga tgtcatggac gggcgctttg tgccaaatat 300

cacaattgga cctttggttg ttgatgctct gcgtcctgtg actgatcttc cattggatgt 360

acatctgatg attgt 375

<210> 255
<211> 429
<212> DNA
<213> Zea mays

<400> 255

cacacgcgtc cgcaacaagc caaacaaccc agtggctgct agccgagaca ggggatagat 60

tgagagagag gcgcgcagat ggcgacgccg tcgtcgtcgc tttgctccag cttcgcctcc 120

ctgcggaccg cctccatcgg ccacccccgt ggcatcgcct cctccacgcc caggaaggca 180

ttccatgtga gggcatcagc tcgggttgac aaattctcaa agagtgacat catcgtgtcc 240

ccttcgattc tgtctgcaaa ctttgcgaag cttggtgatc aggtaaaagc tgtggaggtg 300

gcaggatgcg actggattca tgtcgatgtc atggacgggc gctttgtgcc aaacatcaca 360

attggaccct tggttgttga tgctctgcgt ccagtgactg atcttccgtt ggatgtacat 420

ctgatgatg 429

<210> 256
<211> 424
<212> DNA
<213> Zea mays

<400> 256

atcgcttacc gcccccgaag cgtctcggtt cgcatagcag agctgctctt gcaacaagcc 60

aaacaaccca gtggctgcta gccgagacag gggatagatt gagagagagg cgcgcagatg 120

gcgacgccgt cgtcgtcgct ttgctccagc ttcgcctccc tgcggaccgc ctccatcggc 180

caccccgtg gcatcgcctc ctccacgccc aggaaggcat tccatgtgag ggcatcagct 240

cgggttgaca aattctcaaa gagtgacatc atcgtgtccc cttcgattct gtctgcaaac 300

tttgcgaagc ttggtgatca ggtaaaagct gtggaggtgg caggatgcga ctggattcat 360

gtcgatgtca tggacgggcg ctttgtgcca aacatcacaa ttggaccctt ggttgttgat 420

gctc 424

<210> 257
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 257

cgcccccgaa gcgtctcggt tcgcatagca aagctgctct tgcaacaagc caaacaaggc 60

antggctgct agccgagaca ggggatagat tgagagagag gcgcgcagat ggcgacgccg 120

tcgtcgtcgc tttgctccag cttcgcctcc ctgcggaccg cctccatcgg ccacccccgt 180

ggcatcgcct cctccacgct caggaaggca ttccatgtga gggcatcagc tcgggttgac 240

aagttctcaa agagtgacat catcgtgtcc ccttcgattc tgtctgcaaa ctttgcgaag 300

cttggtgatc aggtaaaagc tgtggaggtg gcaggatgcg actggattca tgtcgatgtc 360

atggacgggc gctttgtgcc aaacatcaca attggaccct tggtttgtga tgctctgcg 419

<210> 258
<211> 416
<212> DNA
<213> Zea mays

<400> 258

agaaccaaat cgcttaccgc ccccgaagcg tctcggttcg catagcaaag ctgctcttgc 60

aacaagccaa acaacccagt ggctgctagc cgagacaggg gatagattga gagagaggcg 120

cgcagatggc gacgccgtcg tcgtcgcttt gctccagctt cgcctccctg cggaccgcct 180

ccatcggcca cccccgtggc atcgcctcct ccacgctcag gaaggcattc catgtgaggg 240

catcagctcg ggttgacaag ttctcaaaga gtgacatcat cgtgtcccct tcgattctgt 300

ctgcaaactt tgcgaagctt ggtgatcagg taaaagctgt ggaggtggca ggatgcgact 360

ggattcatgt cgatgtcatg gacgggcgct ttgtgccaaa catcacaatt ggaccc 416

<210> 259
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 259

caacaagcca aacaacccag tggctgctag ccgagacagg ggatagattg agagagaggc 60

gcgcagatgg cgacgccgtc gtcgtcgctt tgctccagct tcgcctccct gcggaccgcc 120

tccatcggcc acccccgtgg catcgcctcc tccacgccca ggaaggcatt ccatgtgagg 180

gcatcagctc gggttgacaa attctcaaag agtgacatca tcgtgtcccc ttcgattctg 240

tctgcaaact ttgcgaagct tggtgatcag gtaaaagctg tggaagtggc aggatgcgac 300

tggattcatg tcgatgtcat ggacgggcgc tttgtgccaa acatcacaat tggacccttg 360

ngttgtgatg ctctgcgtcc agtgactgat 390

<210> 260
<211> 415
<212> DNA
<213> Zea mays

<400> 260

gttttgtttg ttgtccgcct ggcgcctggc cccataacta ctctgccaca atccggggaa 60

gaatcaacct agcggtaagc ggacatggcg gcggcgaaga tagcgccgtc gatgctctcg 120

tcggactttg ccaacctcgc ttcggaggct gagcgcatgg tccgcctagg cgccgactgg 180

ctacatatgg acatcatgga tgggcacttc gttcctaacc tgactattgg ggctccggtg 240

atccagagct tgaggaaaca taccaaagca tatttggact gccatcttat ggtcacaaag 300

ccttcagatt acgtagaacc atttggaaag gctggcgctt ctggattcac attccatata 360

gaagttgcta gagacaactg gcaagatctc atccaaagca ttaaatcaaa gggta 415

<210> 261
<211> 257
<212> DNA
<213> Glycine max

<400> 261

aaaatttcaa ccacagtgaa ggctacatct cgtgttgaca agttttcaaa aagcgatatc 60

attgtctctc catccattct ttctgcaaac tttgcaagat tgggacaaca ggtgaaagca 120

ctgcagttgg ctggttgtga ttggcttcac gttgatgtaa tggatggccg ttttgttcca 180

aatattacaa ttggacctct tgtcggctga tgcattgcgc cctgtgacag atcttccttt 240

ggatgtacac ctgatga 257

<210> 262
<211> 272
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 262

gggagttgaa aganagaaag gaaggatggg agtgacaccg aaaattgctc cttcgatgct 60

ctcttccgac ttcgccaatt tggcttccga ggctcagcgc atgctccact tcggcgccga 120

ttggctccac atggacatca tggatgggca ttttgtcccc aatttaacta ttggcgctcc 180

agttattgaa agtttgagaa agcacacaaa gggatatttg gattgtcacc ttatggttac 240

aaatcctctt gattatgttg agnccttggc aa 272

<210> 263

<211> 260
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 263

agttgaaaga nagaaaggaa ggatgggagt gacaccgaaa attgctcctt cgatgctctc 60

ttccgacttc gccaatttgg cttccgaggc tcagcgcatg ctccacttcg gcgccgattg 120

gctccacatg gacatcatgg atgggcattt tgtccccaat ttaactattg gcgctccagt 180

tattgaaagt ttgagaaagc acacaaaggg atatttggat tgtcacctta tggttacaaa 240

tcctcttgat tatgttgagc 260

<210> 264
<211> 266
<212> DNA
<213> Glycine max

<400> 264

caaggaagga tgggagtgac accgaaaatt gctccttcga tgctctcttc cgacttcgcc 60

aatttggctt ccgaggctca gcgcatgctc cacttcggcg ccgattggct ccacatggac 120

atcatggatg ggtcttttgt ccccaattta actattggcg ctccagttat tgaaagtttg 180

agaaagcaca caaagggata tttggattgt caccttatgg ttacaaatcc tcttgattat 240

gttgagccct tggcaaaagc tggtgc 266

<210> 265
<211> 228
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 265

tgacaccgaa aattgctcct tcgatgctcn cttccgantt cgcnaatttg gcttccgagg 60

ctcagcgcat gctccacttc ggcgccgatt ggctccacat ggacatcatg gntgggnatt 120

ttgtccccaa tttaactatt ggcgctccag ttattganag tttgagaaag cacacaaagg 180

gatatttnng attgtcacct tatggttaca aatcctcttg attatgtt 228

<210> 266

<211> 243
<212> DNA
<213> Glycine max

<400> 266

caaccataga tgtggccgca tcagcagggg caaactgcat tgttgctgga agttcagtgt 60

ttggtgcccc tgagccagtt caagtaatat ccttactaag gaattctgtt gagaaagccc 120

agcaaacctt gatacagtaa aaaaaaaatg tcgttttaag ttgcagtaca cttcacaact 180

ttgcataaac aatatgctta atgtttaaca ttttccataa gttgaataaa agatcatgtg 240

act 243

<210> 267
<211> 266
<212> DNA
<213> Glycine max

<400> 267

agaggttgat ggtggtttag ggccttcaac catagacgtg gccgcatcag caggggcaaa 60

ttgcattgtt gctggaagtt ctgtttttgg tgcacctgag ccagctcaag taatatccta 120

ctgaggagtt ctgttgagaa agcccagcaa acctcgatac agtaaaacaa tgtcgtttta 180

agttgcagta tacttcacaa ctttacataa acaatatgct aatgttaaca tttcataagt 240

tgaataaaag atcaagtgct tgaaaa 266

<210> 268
<211> 229
<212> DNA
<213> Glycine max

<400> 268

gaaaatttct gacttgagaa gagtgtgcgc ggaaaaggga gtgaatccat ggattgaagt 60

agatggtgga gttggtccag caaatgctta caaggtgatt gaggctggag ccaatgctct 120

ggttgcaggc tctgcttgtt tggagctaaa gattatgccg aagctataag aggaatcaaa 180

accagcaaaa gacctgaagc agttgctgtg tgaaatgccc atgtggttc 229

<210> 269
<211> 266
<212> DNA

<213> Glycine max

<400> 269

ccccccatccc caccccaact tgtatattgt gcataatatc tatctgcatt ctctctcttc 60

agggagtgaa tccatggatt gaagtagatg gtggagttgg tccagcaaat gcttacaagg 120

tgattgaggc tggagccaat gctctggttg caggctctgc tgtgtttgga gctaaagatt 180

atgccgaagc tataagagga atcaaaacca gcaaaagacc tgaagcagtt gctgtgtgaa 240

atgcccatgt ggttcaatat tcaccg 266

<210> 270
<211> 257
<212> DNA
<213> Glycine max

<400> 270

agcgatatca ttgtctctcc gtccattctt tctgcaaact tttcaaaatt gggagagcag 60

gtgaaagcag tggaattggc tggttgtgat tggattcacg ttgatgtaat ggatggtcgc 120

tttgttccaa atattacaat tggacctctt gtggttgatg cattgcgccc tgtgacagat 180

cttcctttgg atgtacacct gatgattgta gacctgaaca aagggtacca gattttatta 240

aggcaggagc tgatata 257

<210> 271
<211> 274
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 271

caagttttca aaaagcgata tcattgtttc tccatccatt ctttctgcaa actttgcaaa 60

attggganag cangtgaaag cagtggagtn gnnggntggt aatnggntca angtngatgt 120

aatggatggc cngtttngtn ccaaatatta caattggacc tcttgtggtt gatgcattgc 180

cgcccctgtg acagatcttc cttnggatgt acacctgatg attgtagacc ctgaacaaag 240

ggtaccagat tttattaagg caggagcccg atac 274

<210> 272
<211> 281

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 272

cttcttcctt gtgttcatcg accctccaat cccaaatcaa tggattctgc cttcacaaaa 60

cctctctttc ccatcctcgt tccctcactt tctccaggaa gaaaatttca accacagtga 120

aggctacatc tcgtgttgac aagttttcaa aaagcgatat cattgtttct ccatccattc 180

tttctgcaaa ctttgcaaaa ttgggagagc aggtgaaagc agtggagttg gctggttntg 240

atggattcac gttgatgtaa tggatgggcg tttgttccaa a 281

<210> 273
<211> 256
<212> DNA
<213> Glycine max

<400> 273

gatggctgca acctcttcct tgtgctcatc gaccctccaa tcccagatca atggattctt 60

ccttcacaaa acctctcttt cccatactcc ttccctcact ttctccagga ggaaaatttc 120

aaccacagtg aaggctacat ctcgagtcga caagttttca aaaagcgata tcattgtctc 180

tccgtccatt ctttctgcaa acttttcaaa attggagagc aagtgaaagc agtagaattg 240

gctggttgtg attgga 256

<210> 274
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 274

gattgctgag tcaaacttga attgaaggtg aagaaggaga tggcagnaac ttcttccttg 60

tgttnatcga ncctncaatc ccaaatcaat ggattctgcn ttcacaaaac ctctntttcc 120

catcctcgtt ccctnacttt ctcnaggaag aaaatttcaa ccacagtgaa ggctacatct 180

cgtgttnaca agttttcaaa aagcgatatc attgtttctc catccattct ttntgcaaac 240

tttgcaaaat tgggagagca ggtgaaagca gtg 273

<210> 275
<211> 260
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 275

ggtnangtaa acttganttg aagtgaagaa ggagatggct gcaacctctt ccttgtgctt 60

catcgaccct ccaatcccag atcaatggat tcttccttca caaaacctct ctttcccata 120

ctccttccct cactttctcc aggaggaaaa tttcaaccac agtgaaggct acatctcgag 180

tcgacaagtt ttcaaaaagc gatatcattg tctctccgtc attctttct gcaaactttt 240

caaaattggg agagcaggtg 260

<210> 276
<211> 247
<212> DNA
<213> Glycine max

<400> 276

gtcaaacttg aattgaaggt gaagaaggag atggcagcaa cttcttcctt gtgttcatcg 60

accctccaat cccaaatcaa tggattctgc cttcacaaaa cctctctttc ccatcctcgt 120

tccctcactt tctccaggaa gaaaatttca accacagtga aggctacatc tcgtgttgac 180

aagttttcaa aaagcgatat cattgtttct ccatccattc tttctgcaaa ctttgcaaaa 240

ttgggag 247

<210> 277
<211> 255
<212> DNA
<213> Glycine max

<400> 277

ggattggtga ggtaaacttg aattgaagtg aagaaggaga tggctgcaac ctcttccttg 60

tgctcatcga ccctccaatc ccagatcaat ggattcttcc ttcacaaaac ctctctttcc 120

catactcctt ccctcacttt ctccaggagg aaaatttcaa ccacagtgaa ggctacatct 180

cgagtcgaca agttttcaaa aagcgatatc attgtctctc cgtccattct ttctgcaaac 240

ttttcaaaat tggga 255

<210> 278
<211> 254
<212> DNA
<213> Glycine max

<400> 278

cgattggtga ggtaaacttg aattgaagtg aagaaggaga tggctgcaac ctcttccttg 60

tgctcatcga ccctccaatc ccagatcaat ggattcttcc ttcacaaaac ctctctttcc 120

catacttctt ccctcacttt ctccaggagg aaaatttcaa ccacagtgaa ggctacatct 180

cgagtcgaca agttttcaaa aagcgatatc attgtctctc cgtccattct ttctgcaaac 240

ttttcaaaat tggg 254

<210> 279
<211> 276
<212> DNA
<213> Glycine max

<400> 279

gcataggatt ggtgaggtaa acttgaattg aagtgaagaa ggagatggct gcaacctctt 60

ccttgtgctc atcgaccctc caatcccaga tcaatggatt cttccttcac aaaacctctc 120

tttcccatac tccttccctc actttctcca ggaggaattt caaccacagt gaaggctaca 180

tctcgagtcg acaagttttc aaaaagcgat atcattgtct ctccgtccat tctttctgca 240

aacttttcaa aattgggaga gcaggtgaaa gcagtg 276

<210> 280
<211> 244
<212> DNA
<213> Glycine max

<400> 280

taggattggt gaggtaaact tgaattgaag tgaagaagga gatggctgca acctcttcct 60

tgtgctcatc gaccctccaa tcccagatca atggattctt ccttcacaaa acctctcttt 120

cccatactcc ttccctcact ttctccagga ggaaaatttc aaccacagtg aaggctacat 180

ctcgagtcga caagttttca aaaagcgata tcattgtctc tccgtccatt ctttctgcaa 240

actt 244

<210> 281
<211> 249
<212> DNA
<213> Glycine max

<400> 281

cttttgtgaa ggcctaggat tgctgagtca aacttgaatt gaaggtgaag aaggagatgg 60

cagcaacttc ttccttgtgt tcatcgaccc tccaatccca aatcaatgga ttctgccttc 120

acaaaacctc tctttcccat cctcgttccc tcactttctc caggaagaaa atttcaacca 180

cagtgaaggc tacatctcgt gttgacaagt tttcaaaaag cgatatcatt gtttctccat 240

ccattcttt 249

<210> 282
<211> 262
<212> DNA
<213> Glycine max

<400> 282

cacacacttt tttcaaggca taggattggt gaggcaaact tgaattgaag tgaagaagga 60

gatggctgca acctcttcct tgtgctcatc gaccctccaa tcccagatca atggattctt 120

ccttcacaaa acctctcttt cccatactcc ttccctcact ttctccagga ggaaaatttc 180

aaccacagtg aaggctacat ctcgagtcga caagttttca aaaagcgata tcattgtctc 240

tccgtccatt ctttctgcaa at 262

<210> 283
<211> 249
<212> DNA
<213> Glycine max

<400> 283

ttttgtcaag gcataggatt ggtgaggtaa acttgaattg aagtgaagaa ggagatggct 60

gcaacctctt ccttgtgctc atcgaccctc caatcccaga tcaatggatt cttccttcac 120

aaaaccttct ttcccatact ccttccctca ctttctccag gaggaaaatt tcaaccacag 180

tgaaggctac atctcgagtc gacaagtttt caaaaagcga tatcattgtc tctccgtcca 240

ttctttctg 249

<210> 284
<211> 265
<212> DNA
<213> Glycine max

<400> 284

cacacagtca cacttttgtg aaggcctagg attgctgagt caaacttgaa ttgaaggtga 60

cgaaggagat ggcagcaact tcttccttgt gttcatcgac cctccaatcc caaatcaatg 120

gattctgcct tcacaaaacc tctctttccc atcctcgttc cctcactttc tccaggaaga 180

aaatttcaac cacagtgaag gctacatctc gtgttgacaa gttttcaaaa agcgatatca 240

ttgtttctcc atccattctt tctgc 265

<210> 285
<211> 250
<212> DNA
<213> Glycine max

<400> 285

caaggcatag gatcggtgag gcaaacttga attgaagtga agaaggagat ggctgcaacc 60

tcttccttgt gctcatcgac cctccaatcc cagatcaatg gattcttcct tcacatcacc 120

tctcttcccc atactccttc cctcactttc tccaggagga aaatttcaac cacagtgaag 180

gctacatctc gagtcgacaa gttttcaaaa gcgatatcat tgtctctccg tccattcttt 240

ctgcaaattt 250

<210> 286
<211> 251
<212> DNA
<213> Glycine max

<400> 286

cacacttttg tcaaggcata ggattggtga ggtaaacttg aattgaagtg aagaaggaga 60

tggctgcaac ctcttccttg tgctcatcga ccctccaatc ccagatcaat ggattcttcc 120

ttcacaaaac ctctctttcc catactcctt ccctcacttt ctccaggagg aaaatttcaa 180

ccacagtgaa ggctacatct cgagtcgaca agttttcaaa agcgatatca ttgtctctcc 240

gtccattctt t 251

<210> 287
<211> 273
<212> DNA
<213> Glycine max

<400> 287

cttttgtgaa ggcctaggat tgctgagtca aacttgaatt gaagagtgaa gaaggagatg 60

gcagcaactt cttccttgtg ttcatcgacc ctccaatccc aaatcaatgg attctgcctt 120

cacaaaacct ctctttccca tcctcgttcc ctcactttct ccaggaagaa aatttcaacc 180

acagtgaagg ctacatctcg tgttgacaag ttttcaaaaa gcgatatcat tgtttctcca 240

tccattcttt ctgcaaactt tgcaaaattg ggg 273

<210> 288
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 288

cacacacagt canactttng tgaaggccta ggattggtga gtcaaacttg aattgaaggt 60

gaagaaggag atggcagcaa cttcttcctt gtgttcatcg accctccaat cccaaatcaa 120

tggattctgc cttcacaaaa cctctctttc ccatcctcgt tccctcactt tctccaggaa 180

gaaaatttca accacagtga aggctacatc tcgtgttgac aagttttcaa aaagcggata 240

tcattgtttc tccatccatc tttctgcaaa ttt 273

<210> 289
<211> 259
<212> DNA
<213> Glycine max

<400> 289

cacagtcaca cttttgtgaa ggcctaggat tgctgagtca aacttgaatt gaaggtgaag 60

aaggagatgg cagcaacttc ttccttgtgt tcatcgaccc tccaatccca aatcaatgga 120

ttctgccttc acaaaacctc tctttcccat cctcgttccc tcactttctc caggaagaaa 180

atttcaacca cagtgaaggc tacatctcgt gttgacaagt tttcaaaaag cgatatcatt 240

gtttctccat ccattcttt 259

<210> 290
<211> 246
<212> DNA
<213> Glycine max

<400> 290

tttcctcaag gcataggatt ggtgaggtaa acttgaattg aagtgaagaa ggagatggct 60

gcaacctctt ccttgtgctc atcgaccctc caatcccaga tcaatggatt cttgcttcac 120

aaaacctctc ttgctcatac tccttccctc actttctcca ggcggaaaat ttcaaccaca 180

gtgaaggcta catctcgagt cgacaagttt tcaaaaagcg atatcatgtg gtcgctccgt 240

ccattc 246

<210> 291
<211> 262
<212> DNA
<213> Glycine max

<400> 291

gctggagttg tcttaaaccc cggtaccccc ttaagtgcaa tagaatatat ccttgatgtg 60

gttgatttgg tcttaattat gtccgtaaac cctggctttg gtggccagag ttttattgag 120

agtcaagtaa agaaaatttc tgatttgaga agattgtgtg cggagaaggg agtgaatcca 180

tggattgaag tagatggtgg agttggtcca gcaaatgcat acaaggtgat tgaggctgga 240

gccaatgcac tggttgctgg ct 262

<210> 292
<211> 282
<212> DNA
<213> Glycine max

<400> 292

agggtaccag attttattaa ggcaggagct gatatagtca gtgttcattg tgaacaatct 60

tccaccatcc atttgcatcg tactgttaat caagtgaaaa gtctgggagc taaagctgga 120

gttgtcttaa accctgctac ccccttaagt gcaatagaat atgtcctgat gtggtggatt 180

tggtcttaat tatgtccgta aaccctggct ttggtggcca gagttttatt gagagtcaag 240

taaagaaaat ttctgacttg agaagagtgt gcgcggaaaa gg 282

<210> 293
<211> 249
<212> DNA
<213> Glycine max

<400> 293

gtcgctttgt tccaaatatt acaattggac ctcttgtggt tgatgcattg cgccctgtga 60

cagatcttcc tttggatgta cacctgatga ttgtagagcc tgaacaaagg gtaccagatt 120

ttattaaggc aggagctgat atagtcagtg ttcattgtga acaatcttcc accatccatt 180

tgcatcgtac agttaatcaa gtgaaaagtc tgggagctaa agctggagtt gtcttaaacc 240

ccggtaccc 249

<210> 294
<211> 264
<212> DNA
<213> Glycine max

<400> 294

ggtgaaagca gtagaattgg ctggttgtga ttggattcac gttgatgtaa tggatggtcg 60

ctttgttcca aatattacaa ttggacctct tgtggttgat gcattgcgcc ctgtgacaga 120

tcttcctttg gatgtacacc tgatgattgt agagcctgaa caaagggtac cagattttat 180

taaggcagga gctgatatag tcagtgttca ttgtgaacaa tcttccacca tccatttgca 240

tcgtacagtt aatcaagtga aaag 264

<210> 295
<211> 267
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 295

gtcagtgttc attgtgaaca atcttccncc atccatttgc atcctacagt taacncaagt 60

gaaaagtctg ggagctaaag ctggagttgt cttaaacccc ggtacccccct taagtgcaat 120

agaatatatc cttgatgtgg ttgatttggt cttaattatg tccgtaaacc ctggctttgg 180

tggccagagt tttattgaga gtcaagtaaa gaaaatttct gatttgagaa gattgtgtgc 240

ggagaaggga gtgaatccat ggattga 267

<210> 296
<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 296

gtccaattgt aatatttgga acaaaacggc catccattac aattngacct cttgtggttg 60

atgcattgcg ccctgtgaca nctcttcctt tggatgtaca cctgatgatt gtacagcctg 120

aacaaagggt accagatttt attaaggcag gagctgatat agtcagtgtt cattgtgaac 180

aatcttccac catccatttg catcgtactg ttaatcaagt gaaaagtctg ggagctaaag 240

ctggagttgt ctaaaccctg ctacccccctt aagtgca 277

<210> 297
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 297

ggctggagtt gtcttaaacc ccggtacccc cttaagtgca atagaatata tccttgatgt 60

ggttnatttg gtcttaattn tgtaccgtaa accctggctt tggtggccag agttttattg 120

agagtcaagt aaagaaattt ctgatttgag aagattgtgt gcggagaagg gagtgaatcc 180

atggattgaa gtagatggtg ggngttggtc cagcaaatgc atacaggtga tnggaggctg 240

gnagccaaac cntggtgcag gcc 263

<210> 298
<211> 388
<212> DNA
<213> Glycine max

<400> 298

ggagaaagaa agaaaagatg ggaatgacac cgaaaatagc tccttcgatg ctctcttccg 60

acttcgccaa tttggcttcc gaggctcagc gcatgctcca cttcggcgcc gattggctcc 120

acatggacat catggatggg cattttgtcc ccaatttaac tattggcgct ccagttattg 180

aaagtttgag aaagcacaca aaggcatatt tggattgtca ccttatggtt acaaatcctc 240

ttgattatgt tgaaccttg gcaaaagctg gtgcttctgg ttttacattt cacgtagaga 300

catcaaaaga taactggaaa gaacttatcc aaagaatcaa gtcacatggc atgattcctg 360

gtgtagcatt aaagcctggg acccccgt 388

<210> 299
<211> 368
<212> DNA
<213> Glycine max

<400> 299

gatggccgtt ttgttccaaa tattacaatt ggacctcttg tggttgatgc attgcgccct 60

gtgacagatc ttcctttgga tgtacacctg atgattgtac agcctgaaca aagggtacca 120

gattttagta aggcacgagc tgatatagtc agtgttcatt gtgaacaatc ttccaccatc 180

catttgcatc gtactgttaa tcaagtgaaa agtctgggag ctaaagctgg agttgtctta 240

aaccctgcta ccccttaag tgcaatagaa tatgtccttg atgtggtgga tttggtccta 300

attaagtccg taaaccctgg ctttggtggc cacagtttta atgagagtca agtaaagaaa 360

atttctga 368

<210> 300
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 300

cgccatcgac ggtgccgacg aggttgaccc tgaccttaac cttgtgaaag ggaggggtgg 60

tgctcttctt cgtgagaaga tggttgaggc agcatcggac aagtttattg ttattgttga 120

cgagacaaaa ctagttgatg ggttaggagg tagtggtcta gccatgccag tggaagttgt 180

gcagttctgc tggaagtaca accttgtaag attgcaggaa ctgtttaagg aggaaggagt 240

cgaggcaaag ctaaggtttg aaggcgacaa gccctatgtt actgacaact ncaactacat 300

cgtcgattta tacttcaaga cgccaatcaa ggatgcgttg gcagcaggac 350

<210> 301
<211> 264

<212> DNA
<213> Zea mays

<400> 301

ccgctctcca cgctcgacga caacccgctc atcgacctcg ccatcgacgg tgccgacgag 60

gttgaccctg acctcaacct tgtgaaaggg cggggtggtg ctcttcttcg tgagaagatg 120

gttgaggcag catcggacaa gtttattgtt attgttgacg agacaaaact agttgatggg 180

ttaggaggta gtggtctagc catgccagtg gaagttgtgc agttctgctg gaagtacaac 240

cttgtaagat tgcaggaact gttt 264

<210> 302
<211> 267
<212> DNA
<213> Zea mays

<400> 302

caaactgcgg ctgctgtaga tacgcgcgcc gtcactccaa ggtccaagcc tcccttgctc 60

ccgccaccgc ccctcaccat gggcagcgcc gccgcctctc cgcagccgtc tgggaatctg 120

acgcaggacg agctcaagcg cgtggcggcg caccgcgcgg tggagttcgt ggagcccggc 180

atgacgctgg gcctgggcac gggttccacg gccgcgcacg cgctggaccg tctgggctac 240

ctactccgcg tgggctcgct gtccggg 267

<210> 303
<211> 333
<212> DNA
<213> Zea mays

<400> 303

acgcccacgc gtccgtcccg ttcccgatcc tcatcacctc aaccccgcgc cgccccctcc 60

ccaccaccct cgccatggtc agcgccgccg cctcgccgcc gccgtccggg aagccgacgc 120

aggacgagct gaagcgcttg gcggcgcacc gcgcggtgga gctcgtggag cccggcatga 180

cgctgggcct gggcacgggc tccacggcgg cgcacgcgct ggaccgcctg ggcgacctcc 240

tccgcgcggg cgcgctgccg ggggtggccg gcgtgccgac ctcgctcaag acggatgcgc 300

aagcggcgcg cgtcggcatc ccgctgctcc cgc 333

<210> 304
<211> 420
<212> DNA
<213> Zea mays

<400> 304

ggcgtgccca catccaagcg caccttcgag caggcgcagt cgctcggcat cccgctctgg 60

acgctcgacg acaacccgct catcgacctc gccatcgacg gtgccgacga ggttgaccct 120

gacctcaacc ttgtgaaagg gcggggtggt gctcttcttc gtgagaagat ggttgaggca 180

gcatcggaca agtttattgt tattgttgac gagacaaaac tagttgatgg gttaggaggt 240

agtggtctag ccatgccagt ggaagttgtg cagttctgct ggaagtacaa ccttgtaaga 300

ttgcaggaac tgtttaagga ggaaggagtc gaggcaaagc taaggtttga aggcgacaag 360

ccctatgtta ctgacaactc aaactacatc gtcgatttat acttcaagac gccaatcaag 420

<210> 305
<211> 432
<212> DNA
<213> Zea mays

<400> 305

accttgtgaa agggcggggt ggtgctcttc ttcgtgagaa gatggttgag gcagcatcgg 60

acaagtttat tgttattgtt gacgagacaa aactagttga tgggttagga ggtagtggtc 120

tagccatgcc agtggaagtt gtgcagttct gctggaagta caaccttgta agattgcagg 180

aactgtttaa ggaggaagga gtcgaggcaa agctaaggtt tgaaggcgac aagccctatg 240

ttactgacaa ctcaaactac atcgtcgatt tatacttcaa gacgccaatc aaggatgcgt 300

tggcagcagg acaggaaatt gcagctctgg aaggagttgt tgaccatggg ttgttcttga 360

acatggcgag ttcagtgatc attgctggaa cggacggtgt cagtgtcaaa acgaagtgag 420

tttttgagtt gc 432

<210> 306
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 306

caccaagcat gccgcnnatg gggtgntgtt nttcgtgaga agatgggtga ggcagcatng 60

gacaagttta ntgttattgt tgacgagaca aaactagttg atgggttagg aggtagtggt 120

ctagccatgc cagtggaagt tgtgcagttc tgctggaagt acaaccttgt aagattgcag 180

gaactgttta aggaggaagg agtcgaggca aagctaaggt ttgaaggcga caagccctat 240

gttactgaca actcaaacta catcgtcgat ttatacttca agacgccaat caaggatgcc 300

gttggcagca ggacaggaaa ttgcagctct ggaaggagtt gttgaccatg ggttgttctt 360

gaacatggcg agttcagtga tcattgctgg aacggacggt gtcagtgtca aaacgaaatg 420

agtttttgag ttgctttgtt ggttgngttg aaatttttt t 461

<210> 307
<211> 249
<212> DNA
<213> Glycine max

<400> 307

ctcgatctcg ccatcgacgg cgccgacgag gtcgaccccg acctcaacct cgtcaaaggc 60

cgcggcggcg ccctcctccg cgagaagatg gtcgaggccg cctccgacaa gttcgtcgtg 120

gtcgtcgacg acaccaagct cgtggacggc ctcggcggaa gcgggctggc catgccggtg 180

gaggtggtcc agttctgctg gaagtacaat ctggatcggc ttcaggagct tttcaaggaa 240

gaaggtgtg 249

<210> 308
<211> 240
<212> DNA
<213> Glycine max

<400> 308

gtcgaccccg acctcaacct cgtcaaaggc cgcggcggcg ccctcctccg cgagaagatg 60

gtcgaggccg cctccgacaa gttcgtcgtg gtcgtcgacg acaccaagct cgtggacggc 120

ctcgcggaag cgggctggcc atgccggtgg aggtggtcca gttctgctgg aagtacaatc 180

tggatcggct tcaggagctt ttcaaggaag aaggtgtgga agcaaaattg agattggagg 240

<210> 309
<211> 262
<212> DNA

<213> Glycine max

<400> 309

ggtcgacccc gacctcaacc tcgtcaaagg ccgcggcggc gccctcctcc gcgagaagat 60

ggtcgaggcc gcctccgaca agttcgtcgt ggtcgtcgac gacaccaagc tcgtggacgg 120

cctcggcgga agcgggctgg ccatgccggt ggaggtggtc cagatctgct ggaagtacaa 180

tctggatcgg cttcaggagc ttttcaagga agaaggtgtg gaagcaaaat tgagattgga 240

ggagagtggg aaccctacgt ca 262

<210> 310
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 310

accacacatt caattttana cctctgggcg tggctagctt caacctttaa cattaacatg 60

gccattccct acccccattt catcgccacc gagaaagccg ccatggacgc cggcctcctc 120

caccctcct ccccctccgt catcctcacc caagacgatt tgaagaaaat cgccgcctac 180

aaggccgtcg agtacgtgga gtccggcatg atcctcggcc tcggcaccgg ctccaccgcc 240

aagcatgccg tcgaccgcat cgg 263

<210> 311
<211> 274
<212> DNA
<213> Glycine max

<400> 311

cttacattcc tttctccacc acacattcaa ttttgaacct ctgggactgg ctagcttcaa 60

cctttaacat taacatggcc attccctacc cccatttcat cgccaccgag aaagccgcca 120

tggacgccgg cctcctccac ccctcctccc cctccgtcat cctcacccaa gacgatttga 180

agaaaatcgc cgcctacaag gccgtcgagt acgtggagtc cggcatggtc ctcggcctag 240

gcaccggctc caccgccaag catgccgtcg accg 274

<210> 312
<211> 333

<212> DNA
<213> Zea mays

<400> 312

ctcacctccc ctccactccc tttctcccct gactcctgct ctataggatc ctccgcctcc 60

atcgcctctc gcgcctccaa tcgccttcgg cgcttcgtcc gtcctgctcc acctcttctt 120

acgccggttg accctgacct caaccttgtg aaagggcggg gtggtgctct tcttcgtgag 180

aagatggttg aggcagcatc ggacaagttt attgttattg ttgacgagac aaaactagtt 240

gatgggttag gaggtagtgg tctagccatg ccagtggaag ttgtgcagtt ctgctggaag 300

tacaaccttg taagattgca ggactgttaa gga 333

<210> 313
<211> 302
<212> DNA
<213> Zea mays

<400> 313

ggatggtgct cgggctcggg acgggctcca cggccgcctt cgccgtcgcc gagatcggcg 60

cgctcctggc cgcgggcaag ctcgagaaga tcgtcggcgt gcccacatcc aagcgcacct 120

tcgagcaggc gcagtcgctc ggcatcccgc tctccacgct cgacgacaac ccgctcatcg 180

acctcgccat cgacggtgcc gacgaggttg accctgacct caaccttgtg aaagggcggg 240

gtggtgctct tcttcgtgag aagatggttg aggcagcatc ggacaagttt attgttattg 300

tt 302

<210> 314
<211> 244
<212> DNA
<213> Glycine max

<400> 314

ctcaaggaca tcgtcggaat ccccacctcc acaaaaaccc acgaacaagc cctctccctc 60

gggatccccc tctccgatct cgacgcccac cccgccatcg atctcgccat cgacggcgcc 120

gacgaggtcg atcccttcct caacctcgtc aagggccgtg gcggctccct cctccgagaa 180

aaaatggtcg aaggcgcatg caagaagttc atcgtcatcg ttgatgagtc caagctcgta 240

aact 244

<210> 315
<211> 267
<212> DNA
<213> Glycine max

<400> 315

ccgccatcga tctcgccatc gacggcgccg acgaggtcga ccccttcctc aacctcgtca 60

agggccgtgg cggctccctc ctccgagaaa aaatggtcga aggcgcatgc aagaagttca 120

tcgtcatcgt tgatgagtcc aagctcgtaa actatttggg gggtagtggg ttggccatgc 180

ccgttgaggt tattaagttc tgttggaggt tcaccgcggc gaggttgcag aagcttcttg 240

aggaggctgg gtgcgttgcc aggctca 267

<210> 316
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 316

gatttgaaga aaatcgcngc ctacaaggcc gtcgagtacg tggagtccgg catggtcctc 60

ggcctaggca ccggctccan cgccaagcat gccgtcganc gcatcggcga gctcctccgc 120

cagggcaagc tcaaggacat cgtcggaatc cccacctcca caaaaaccca cgaacaagcc 180

ctctccctcg ggatcccccc ctccgatctc gacgcccacc ccgccatcga tctcgccatc 240

gacggcgccg acgaggtcga ccccttcctc aacctcgtca agggccgtgg g 291

<210> 317
<211> 265
<212> DNA
<213> Glycine max

<400> 317

agacgacctc aagaaaatcg ccgcctacaa ggccgtcgag tacgtcgagt ccggcatggt 60

cctcggcctc ggcaccggct ccactgccaa gcacgccgtc gaccgcatcg gcgagctcct 120

ccgccaagga aaactcaaag acatcgtcgg catccccacc tccaccaaaa cccacgacca 180

ggccctctcc ctcggcatcc ccctctccga tctcgactcc caccccaccg tcgatctcgc 240

catcgacggc gccgacgagg tcgat 265

<210> 318
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 318

cacaccacna cgcctccacg ngccttattc nanncacccc taantngngt aaacngcgca 60

ctaccacncc actaccctcc ccgccatcng cgccatcacc ctcacccagg acgaccncaa 120

gagactcgcc gccgacaagg ccgtggagtc cgtcaagagc ggcatggtcc tcggcctagg 180

caccggctcc actgctgcct tcgtcgtcgc caagcttggc gcccttctcg cctccggcca 240

actctccgac atcgtcggtg tcccc 265

<210> 319
<211> 320
<212> DNA
<213> Zea mays

<400> 319

gagaagtcgg tcaacacgat ccggttcctg gccatcgacg ccgtcgagaa ggccaactcc 60

ggccacccgg gcctccccat gggctgcgcg cccatgggcc acgtcctcta cgacgaggtc 120

atgcgctaca accccaagaa cccctactgg ttcaaccgcg accgcttcgt cctctccgcc 180

ggccacggct gcatgctcca gtacgccctc ctccacctcg ccggttacga cagcgttaag 240

gaggaggact tgaagcagtt ctggcaatgg ggaagcagaa caccgggcca ccctgagaac 300

tttgagactc caggagttga 320

<210> 320
<211> 235
<212> DNA
<213> Zea mays

<400> 320

gtacaccatc tctgacaact ctaccggcaa caagccgggc atcattgtga tgggcaccgt 60

ctccgagctg tagatcgcgg ccaaggccgt cgacgagctg aggaaggagg ggaagacggt 120

ccgcgtcgtc tcgttcgtct cctgggaact ctttgatgag cagtcggatg agcacaagga 180

gatcgtcctc cctgccgccg tcacagcgag gatcagcatc gaagccgggt ccact 235

<210> 321
<211> 276
<212> DNA
<213> Zea mays

<400> 321

ccagattcgc ttaaggctga aaggcggatg gaagctctca tatagtcggt gaagacaaag 60

aacgttgcac aataaggtat cagaccaggg ctgtgaacag cgatgccatt cgaaatggca 120

cccatagcat gctctcgcac accgaagcga atgtttctct cttcaggagt atccctctgg 180

atttctccaa acttcttaag cagtgtcatg tttgacgttg cgagatccga actacctcca 240

agaaatccag gtattacttt ggcaagtgca ttcaag 276

<210> 322
<211> 292
<212> DNA
<213> Zea mays

<400> 322

gcaaccaggc agaaccttgg atggccctat gacacattct ttgtaccaga ggacgtcaag 60

agtcactgga gccgccacac acccgaaggt gctgcacttg aggctgattg gaacgctatg 120

tttgcagagt acgagaagaa gtatgcagat gatgcagcaa ccttgaaaag tatcatcacg 180

ggggagttac ccactggctg ggttgatgct cttcctaaat acactccaga gagcccagga 240

gatgccacca ggaacctctc ccagcagtgc ctgaacgcgc ttgctaatgt tg 292

<210> 323
<211> 295
<212> DNA
<213> Zea mays

<400> 323

tggaagtgca ctgggtgcca aagaggttga agcaaccagg cagaaccttg gatggcccta 60

cgacacattc tttgtaccag aggacgtcaa gagtcactgg agccgccaca cacccgaagg 120

tgctgcactt gaggctgatt ggaacgctaa gtttgcagag tacgagaaga agtatgcaga 180

tgatgcagca accttgaaaa gtatcatcac gggggagtta cccactggct gggttgatgc 240

tcttcctaaa tacactccag agagcccagg agatgccacc taggaactct cccag 295

<210> 324
<211> 285
<212> DNA
<213> Zea mays

<400> 324

agagtacgag aagaagtatg cagatgatgc agcaaccttg aaaagtatca tcacggggga 60

gttacccact ggctgggttg atgctcttcc taaatacact ccagagagcc caggagatgc 120

caccaggaac ctctcccagc agtgcctgaa cgcccttgct aatgttgtgc ctggtcttat 180

cggaggcagt gctgatcttg catcctccaa catgactctg ctgaagatgt ttggtgactt 240

ccagaaggat acagctgaag agcgcaatgt ccgcttcgga gtcag 285

<210> 325
<211> 296
<212> DNA
<213> Zea mays

<400> 325

ggccacagtc aaggagccgg acacaccgaa gcggagcacc tgaggccgat tggaacgcta 60

tgtttgcaga gtacgagaag aagtatgcag atgatgcagc aaccttgaaa agtatcatca 120

cgggggagtt acccactggc tgggttgatg ctcttcctaa atacactcca gagagcccag 180

gagatgccac caggaacctc tcccagcagt gcctgaacgc gcttgctaat gttgtgcctg 240

gtcttattgg aggcagtgct gatcttgcat cctccaacat gactctgctg aagatg 296

<210> 326
<211> 293
<212> DNA
<213> Zea mays

<400> 326

caggagatgc caccaggaac ctctcccagc agtgcctgaa cgcgcttgct aatgttgtgc 60

ctggtcttat tggaggcagt gctgatcttg catcctccaa catgactctg ctgaagatgt 120

ttggtgactt ccagaaggat acagctgaag agcgcaatgt ccgctttgga gtcagagagc 180

acggaatggg cgccatttgc acaggcattg ctctgcacag cccagggttt gttccgtact 240

gtgctacagt ctttgtcttc actgtttaca tgagaggtgc catgaggatc tcg 293

<210> 327
<211> 271
<212> DNA
<213> Zea mays

<400> 327

gtcaagagtc actggagccg ccacacaccc gaaggtgctg cacttgaggc tgattggaac 60

gctatgtttg cagagtacga gaagaagtat gcagatgatg cagcaacctt gaaaagtatc 120

atcacggggg agttacccac tggctgggtt gatgctcttc ctaaatacac tccagagagc 180

ccaggagatg ccaccaggaa cctctcccag cagtgcctga acgcgcttgc taatgttgtg 240

cctggtctta ttggaggcag tgctgatctt g 271

<210> 328
<211> 285
<212> DNA
<213> Zea mays

<400> 328

ccaccaggac cctctcccag cagtgcctga acgcgcttgc taatgttgtg cctggtctta 60

ttggaggcag tgctgatctt gcatcctcca acatgactct gctgaagatg tttggagact 120

tccagaagga tacagctgaa gagcgcaatg tccgctttgg agtcagagag cacggaatgg 180

gcgccatttg caacggcatt gctctgcaca gcccagggtt tgttccgtac tgtgctacat 240

tctttgtctt cactgattac atgagaggtg ccatgaggat ctcgg 285

<210> 329
<211> 274
<212> DNA
<213> Zea mays

<400> 329

ctcgagcgaa tcggctcgag atcacggggg agttacccac tgcctgggtt gatgctcacc 60

ctaaatacac tccagagagc ccaggagatg ccaccaggaa cctctcccag cagtgcctga 120

acgcccttgc taatgttgtg cctggtctta tcggaggcag tgctgatctt gcatcctcca 180

acatgactct gctgaagatg tttggtgact tccagaagga tacagctgaa gagcgcaatg 240

tccgcttcgg agtcagagag cacggaatgg gcgc 274

<210> 330
<211> 187
<212> DNA
<213> Zea mays

<400> 330

ccactggctg ggttgatgct cttcctaaat acactccaga gagcccagga gatgccacca 60

ggaacctctc ccagcagtgc ctgaacgccc ttgctaatgt tgtgcctggt cttatcggag 120

gcagtgctga tcttgcatcc tccaacatga ctctgctgaa gatgtttggt gacttccaga 180

aggatac 187

<210> 331
<211> 219
<212> DNA
<213> Zea mays

<400> 331

gaagtatgca gatgatgcag caaccttgaa aagtatcatc acgggggagt tacccactgg 60

ctgggttgat gctcttccta aatacactcc agagagccca ggagatgcca ccaggaacct 120

ctcccagcag tgcctgaacg cgcttgctaa tgttgtgcct ggtcttattg gaggcagtgc 180

tgatcttgca tcttccaaca tgactctgct gaagatgtt 219

<210> 332
<211> 177
<212> DNA
<213> Zea mays

<400> 332

tcttattgga ggcagtgctg atcttgcatc ctccaacatg actctgctga agatgtgggg 60

tgactcccag aaggatacac tgaagagcgc aatgtccgct ttggagtcag agagcacgga 120

atgggcgcca tttgcaacgg cattgctctg cacagcccag ggtttgttcc gtactgt 177

<210> 333
<211> 261
<212> DNA
<213> Zea mays

<400> 333

cgctcgagcg catcggctcg agatcacggg ggagttaccc actggctggg ttgatgctat 60

tcctaaatac actccagaga gcccaggagc tgccacagga ccctctccca gcagtgcctg 120

aacgcccttg ctaatgttgt gcctggtctt atcggaggca gtgctgatct tgcatcctcc 180

aacatgactc tgctgaagat gtttggtgac ttccagaagg atacagctga agagcgccat 240

gtccgcttcg gagtcagaga g 261

<210> 334
<211> 203
<212> DNA
<213> Zea mays

<400> 334

caggggtctt ggcaagctga tagctttcta cgatgacaac cacatttcca tcgacggaga 60

cacggagatt gcattcacag aggacgtgag cacccgcttc gaggctcttg ggtggcacac 120

gatctgggtt aagaatggga acaccggata tgatgacatc cgcgcaccat taaggaggcg 180

aaggcagtca ctgacaagcc cac 203

<210> 335
<211> 289
<212> DNA
<213> Zea mays

<400> 335

gagcgcaatg tccgcttcgg agtcagagag cacggaatgg gcgccatttg caacggcatt 60

gctctgcaca gcccagggtt tgttccgtac tgtgctacat tctttgtctt cactgattac 120

atgagaggtg ccatgaggat ctcggccctg tctgaagccg gagtcatcta tgtcatgacc 180

cacgactcta ttggtctcgg agaagatggc ccgacccatc agcccatcga gcacctggtg 240

agcttccgtg cgatgccgaa catactgatg ctccgccctg ctgatggca 289

<210> 336
<211> 305
<212> DNA
<213> Zea mays

<400> 336

gatgtttggt gacttccaga aggatacagc tgaagagcgc aatgtccgct tcggagtcag 60

agagcacgga atgggcgcca tttgcaacgg cattgctctg cacagcccag ggtttgttcc 120

gtactgtgct acattctttg tcttcactga ttacatgaga ggtgccatga ggatctcggc 180

cctgtctgaa gccggagtca tctatgtcat gacccacgac tctattggtc tcggagaaga 240

tggcccgacc catcagccca tcgagcacct ggtgagcttc cgtgcgatgc cgaacatact 300

gatgc 305

<210> 337
<211> 275
<212> DNA
<213> Zea mays

<400> 337

attacatgag aggtgccatg aggatctcgg ccctgtctga agccggagtc atctatgtca 60

tgacccacga ctctattggt ctcggagaag atggcccgac ccatcagccc atcgagcacc 120

tggtgagctt ccgtgcgatg ccgaacatac tgatgctccg ccctgctgat ggcaacgaga 180

ctgccggagc atacaaagtc gcggtcctca acaggaagag gccgtccatc ctcgctctct 240

ccaggcaaaa gctccctcac ctgcctggca cctcg 275

<210> 338
<211> 288
<212> DNA
<213> Zea mays

<400> 338

agcacctggt gagcttccgt gcgatgccga acatactgat gctccgccct gctgatggca 60

acgagactgc cggagcatac aaagtcgcgg tcctcaacag gaagaggccg tccatcctcg 120

ctctctccag gcaaaagctc cctcacctgc ctggcacctc gatcgagggc gtggagaagg 180

gcgggtacac catctctgac aactcgaccg gcaacaagcc tgacatcatt gtgatgggca 240

ccggctccga gctggagatc gcggccaagg ccgccgacga gctgagga 288

<210> 339
<211> 280
<212> DNA
<213> Zea mays

<400> 339

ctgccggagc atacaaagtc gcggtcctca acaggaagag gccgtccatc ctcgctctct 60

ccaggcaaaa gctccctcac ctgcctggca cctcgatcga gggcgtggag aagggcgggt 120

acaccatctc tgacaactcg accggcaaca agcctgacat cattgtgatg ggcaccggct 180

ccgagctgga gatcgcggcc aaggccgccg acgagctgag gaaggagggg aagacggtcc 240

gcgtcgtctc gttcgtctcc tgggaactct ttgatgagca 280

<210> 340
<211> 255
<212> DNA
<213> Zea mays

<400> 340

gtctcggaga agatggcccg acccatcagc ccatcgagca cctggtgagc ttccgtgcga 60

tgccgaacat actgatgctc cgccctgctg atggcaacga gactgccgga gcatacaaag 120

tcgcggtcct caacaggaag aggccgtcca tcctcgctct ctccaggcaa aagctccctc 180

acctgcctgg cacctcgatc gagggcgtgg agaagggcgg gtacaccatc tctgacactc 240

gaccggcaac aagcc 255

<210> 341
<211> 254
<212> DNA
<213> Zea mays

<400> 341

catctatgtc atgacccacg actctattgg tctcggagaa gatggcccga cccatcagcc 60

catcgagcac ctggtgagct tccgtgcgat gccgaacata ctgatgctcc gccctgctga 120

tggcaacgag actgccggag catacaaagt cgcggtcctc aacaggaaga ggccgtccat 180

cctcgctctc tccaggcaaa agctccctca cctgcctggc acctcgatcg agggcgtgga 240

gaagggcggg taca 254

<210> 342
<211> 273
<212> DNA
<213> Zea mays

<400> 342

ggagatcgcg gccaaggccg ccgacgagct gaggaaggag gggaagacgg tccgcgtcgt 60

ctcgttcgtc tcctgggaac tctttgatga gcagtcggat gagtacaagg agagcgtcct 120

ccctgccgcc gtcacagcga ggatcagcat cgaggccggg tccactctcg gctggcagaa 180

gtacgtcgga gcccagggca aggccattgg catcgacaag ttcggcgcga gtgctcctgc 240

cgggacgatc tacaaggagt acggcatcac cgt 273

<210> 343
<211> 301
<212> DNA
<213> Zea mays

<400> 343

ctatgtcatg acccacgact ctattggtct cggagaggat ggcccgaccc atcagcccat 60

cgagcacctg gtgagcttcc gtgcgatgcc gaacatactg atgctccgcc ctgctgatgg 120

caacgagact gccggagcat acaaagtcgc ggtcctcaac aggaagaggc cgtccatcct 180

cgctctctcc aggcaaaagc tccctcacct gcctggcacc tcgatcgacg gcgtggagaa 240

tggcgggtac accatctctg acaactcgac cggcaacaag cctgacctca ttgtgatggg 300

c 301

<210> 344
<211> 276
<212> DNA
<213> Zea mays

<400> 344

gcctgacatc attgtgatgg gcaccggctc cgagctggag atcgcggcca aggccgccga 60

cgagctgagg tcatgagggg aagacggtcc gcgtcgtctc gttcgtctcc tgggaactct 120

ttgatgagca gtcggatgag tacaaggaga gcgtcctccc tgccgccgtc acagcgagga 180

tcagcatcga ggccgggtcc actctcggct ggcagaagta cgtcggagcc cagggcaagg 240

ccattggcat cgacaagttc ggcgcgagtg ctcctg 276

<210> 345
<211> 300

<212> DNA
<213> Zea mays

<400> 345

cgacgagctg aggaaggagg ggaagacggt ccgcgtcgtc tcgttcgtct cctgggaact 60

ctttgatgag cagtcggatg agtacaagga gagcgtcctc cctgccgccg tcacagcgag 120

gatcagcatc gaggccgggt ccactctcgg ctggcagaag tacgtcggag cccagggcaa 180

ggccattggc atcgacaagt tcggcgcgag tgctcctgcc gggacgatct acaaggagta 240

cggcatcacc gtggagagca tcattgcagc tgccaagagc ttttaagagc taacaacggt 300

<210> 346
<211> 316
<212> DNA
<213> Zea mays

<400> 346

ggtgccatga ggatctcggc cctgtctgaa gccggagtca tctatgtcat gacccacgac 60

tctattggtc tcggagagga tggcccgacc catcagccca tcgagcacct ggtgagcttc 120

cgtgcgatgc cgaacatact gatgctccgc cctgctgatg gcaacgagac tgccggagca 180

tacatcgccg cggtcctcaa caggaagagg ccgtccatcc tcgctctctc caggcaaaag 240

ctccctcacc tgcctggcac ctcgatcgag ggcgtggaga agggcgggta caccatctct 300

gacaactcga ccggca 316

<210> 347
<211> 299
<212> DNA
<213> Zea mays

<400> 347

ctttgatgag cagtcggatg agtacaagga gagcgtcctc cctgctgccg tcacagcgag 60

gatcagcatc gaggccgggt ccactcttgg ctggcagaag tacgtcggag cccagggcaa 120

ggccattggc atcgacaagt tcggcgcgag tgctcctgcc gggacgatct acaaggagta 180

cggcatcacc gtggagagca tcattgcagc tgccaagagc ttttaagagc taacaacggt 240

ctggagtttt ttttattgtc gtcgttgatg ccaaaggaac actgtacctt gaggacagt 299

<210> 348
<211> 242
<212> DNA
<213> Zea mays

<400> 348

caggcgtcct ccctgctgcc gtcacagcga ggatcagcat cgaggccggg tccactcttg 60

gctggcagaa gtacgtcgga gcccagggca aggccattgg catcgacaag ttcggcgcga 120

gtgctcctgc cgggacgatc tacaaggagt acggcatcac cgtggagagc atcattgcag 180

ctgccaagag cttttaagag ctaacaacgg tctggagttt tttttattgt cgtcgttgat 240

gc 242

<210> 349
<211> 287
<212> DNA
<213> Zea mays

<400> 349

tctcgagccg gtcctcaaca ggaagaggcc gtccatcctc gctctctcca ggcaaaagct 60

ccctcacctg cctggcacct cgatcgaggg cgtggagaag ggcgggtaca ccatctctga 120

caactcgacc ggcaacaagc ctgacatcat tgtgatgggc accggctccg agctggagat 180

cgcggccaag gccgccgacg agctgaggaa ggaggggaag acggtccgcg tcgtctcgtt 240

cgtctcctgg gaactctttg atgagcagtc ggatgagtac aaggaga 287

<210> 350
<211> 265
<212> DNA
<213> Zea mays

<400> 350

gtccactctc ggctggcaga agtacgtcgg agcccagggc aaggccattg gcatcgacaa 60

gttcggcgcg agtgctcctg ccgggacgat ctacaaggag tacggcatca ccgtggagag 120

catcattgca gctgccaaga gcctttaaga gctaacaacg gtctggagtt tttcttattg 180

tcgtcgttga tgccaaagga acactgtacc tagaggacat cctatgcctc ggagcttgga 240

ataatgatga tggagggagc ggaag 265

<210> 351
<211> 336
<212> DNA
<213> Zea mays

<400> 351

cttcgaggct cttgggtggc acacgatctg ggttaagaat gggaacaccg gatatgatga 60

catccgcgca ccattaagga ggcgaaggca gttactgaca agcccacctt gatcaaggtg 120

actaccacga tcggttttgg atctcccaac aaggccaact catacagtgt tcatggaagt 180

gcactgggtg ccaaataggt tgaagcaacc aggcagaacc ttggatggcc ctatgacaca 240

ttctttgtac cagaggacgt caagagtcac tggagccgcc acacacccga aggtgctgca 300

cttgaggctg attggaacgc taagtttgca gagtac 336

<210> 352
<211> 275
<212> DNA
<213> Zea mays

<400> 352

tgatcacccg cttcgaggct cttgggtggc acactatctg ggttaagaat gggaacaccg 60

gatatgatga catccgcaca ccattaagga ggcgaaggca gttactgaca agcccacctt 120

gatcaaggtg actaccacat cggttttgga tctcccaaca aggccaactc atacagtgtt 180

tatggaagtg cactgggtgc caaagaggtt gaagcaacca ggcagaacct tggatggccc 240

tatgacacat tctctgtacc agaggacgtc aagag 275

<210> 353
<211> 286
<212> DNA
<213> Zea mays

<400> 353

ccggatatga tgacatccgc gcaccattaa ggaggcgaag gcagttactg acaagcccac 60

cttgatcaag gtgactacca cgatcggttt tggatctccc aacaaggcca actcatacag 120

tgttcatgga agtgcactgg gtgccaaaga ggttgaagca accaggcaga accttggatg 180

gccctatgac acattctttg taccagagga cgtcaagagt cactggagcc gccacacacc 240

cgaacgtgct gcacttgagg ctgattggaa cgctaagttt gcagag 286

<210> 354
<211> 249
<212> DNA
<213> Zea mays

<400> 354

cttgggtggc acacgatctg ggttaagaat gggaacaccg gatatgatga catccgcgca 60

ccattaagga ggcgaaggca gttactgaca agcccacctt gatcaaggtg actaccacga 120

tcggttttgg atctcccaac aaggccaact catacagtgt tcatggaagt gcactgggtg 180

ccaaagaggt tgaagcaacc aggcagaacc ttggatggcc ctatgacaca ttctttgtac 240

cagaggacg 249

<210> 355
<211> 423
<212> DNA
<213> Zea mays

<400> 355

agctccctca cctgcctggc acctcgatcg agggcgtgga gaagggcggg tacaccatgt 60

ctgacaactc gaccggcaac aagcctgacc tcattgtgat gggcaccggc tccgagctgg 120

agatcgcggc caaggccgcc gacgagctga ggaaggaggg caagacggtc cgcgtcgtct 180

cgttcgtctc ctgggaactc tttgatgagc agtcggatga gtacaaggag agcgtcctcc 240

ctgctgccgt cacagcgagg atcagcatcg aggccgggtc cactcttggc tggcagaagt 300

acgtcggagc ccagggcaag gccattggca tcgacaagtt cggcgcgagt gctcctgccg 360

ggacgatcta caaggagtac ggcatcaccg tggagagcat cattgcagct gccaagaagc 420

ttt 423

<210> 356
<211> 385
<212> DNA
<213> Zea mays

<400> 356

caaccggcac caagcctgac atcattgggt tgggcaccgg ctccgagctg gagatcgcgg 60

gcaatgcggc cgacgagctg aggaaggagg ggaagacggt ccgcgtcgtc tcgttcgtct 120

cctgggaact ctttgatgag cagtcggatg agtacaagga gagcgtcctc cctgccgacg 180

tcacagcgag gatcagcatc gaggccgggt ccactctcgg ctggcagaag tacgtcggag 240

cccaaggcaa ggccattggc atcgacaagt tcggcgcgag tgctcctgcc gggacgatct 300

acaaggagta cggcatcacc gtggagagca tcattgcaac tgccaagagc ttttaagagc 360

taacaacggt ctgggagttt ttttt 385

<210> 357
<211> 279
<212> DNA
<213> Glycine max

<400> 357

atgctaagtt tgctgagtat gaaaagaaat acaaggagga agctgcagaa ttgaaatcta 60

ttatcaatgg tgaattccct gctggttggg agaaagcact tccgacatac actccagaga 120

gcccagcgga tgccaccaga aacctgtctc aaacaaacct taatgccctt gcaaaggttc 180

ttcccggtct gcttggtggc agtgcagatc ttgcttcttc caacatgacc ttgctcaaaa 240

tgttcgggga cttccagaag gatactccag cagagcgta 279

<210> 358
<211> 246
<212> DNA
<213> Glycine max

<400> 358

ccttgctcaa aatgttcggg gacttccaaa aggatactcc agcagagcgt aatgttagat 60

tcggtgttag agaacacgga atgggagcta tctgcaacgg cattgctctt cacagccctg 120

gactgattcc atattgtgca accttctttg tattcactga ctacatgaga ggtgccataa 180

ggctttctgc gctgtctgag gctggggtta tttatgtcat gacccatgat tcaataggac 240

ttggag 246

<210> 359
<211> 220
<212> DNA
<213> Glycine max

<400> 359

caataaccag tgagagtcac aatcaaatag tagggaatgg gttaatcctt ggaacagggc 60

tgattccata ttgtgcaacc ttctttgtat tcactgacta catgagaggt gccataaggc 120

tttctgcgct gtctgaggct ggggttattt atgtcatgac ccatgattca ataggacttg 180

gagaagatgg gccaacccac cagcctattg agcacctagc 220

<210> 360
<211> 263
<212> DNA
<213> Glycine max

<400> 360

cagaaacctg tctcaaacaa accttaatgc ccttgcaaag gttcttcccg gtctgcttgg 60

tggcagtgca gatcttgctt cttccaacat gaccttgctc aaaatgttcg gggacttcca 120

aaaggatact ccagcagagc gtaatgttag attcggtgtt agagaacacg gaatgggagc 180

tatctgcaat ggcattgctc ttcacagccc tggactgatt ccatattgtg caaccttctt 240

tgtattcact gactacatga gag 263

<210> 361
<211> 308
<212> DNA
<213> Glycine max

<400> 361

tccttcccat cattctctgg cctcaagtca cattctacat gcaaagcagc agcagccacg 60

tcctcgcgta gaaggggtgc ttgtccatcc accaacgttg ttcgagccgc tgcggttgag 120

acactcgacc aaaccaccga ggtttctctg gtggagaaat ccgtcaacac cattcggttt 180

ttggccattg atgcagttga gaaggccaac tctggtcacc ctggtctccc catggggtgt 240

gctccaatgg gtcacattct ctacgatgag ataatgaggt acaatcctaa gaaccccgtt 300

ggttcaac 308

<210> 362
<211> 263
<212> DNA
<213> Glycine max

<400> 362

tgctgtttca gccagagtta gcattgaggc aggatcaaca tttgggtggg agaaaattgt 60

tggagcaaaa gggaaaagca ataggcattg atcgttttgg agctagtgct ccagctggaa 120

gaatatacaa agaatttggt atcactaagg aagctgttgt tgctgcagct aaagagctta 180

tctagaactt ttgatttttt ttgccttctg gttttggttg agagcattcc atgtcatgaa 240

taagaaaaag gttaaatatc ctt 263

<210> 363
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 363

aaccattggt tatggttctc ctaacaaggc taactcctac agtgtgcatg gaagtgcact 60

gggtgccaaa gaagttgang ccacaaggca gaaccttgga tggtcacatg agccattcca 120

cgtgcctgag gatgtcaaaa agcattggag tcgccacacc cctgagggtg ctgcacttga 180

agctgaatgg aatgctaagt ttgctgagta tgaaaagaat acaaggagga agctgcagaa 240

ttgaaatcta ttatcaatgg tgaattccct gctggttggg agaaagcact tccgacatac 300

actccagaga gcccacgggt gccaccagaa ac 332

<210> 364
<211> 247
<212> DNA
<213> Glycine max

<400> 364

aaccattggt tatggttctc ctaacaaggc taactcctac agtgtgcatg gaagtgcact 60

gggtgccaaa gaagttgatg ccacaaggca gaaccttgga tggtcacatg agccattcca 120

cgtgcctgag gatgtcaaaa agcattggag tcgccacacc cctgagggtg ctgcacttga 180

agctgaatgg aatgctaagt ttgctgagta tgaaaagaaa tacaaggagg aagctgcaga 240

attgaaa 247

<210> 365
<211> 238
<212> DNA

<213> Glycine max

<400> 365

caaggctaac tcctacagtg tgcatggaag tgcactgggt gccaaagaag ttgatgccac 60

aaggcagaac cttggatggt cacatgagcc attccacgtg cctgaggatg tcaaaaagca 120

ttggagtcgc cacacccctg agggtgctgc acttgaagct gaatggaatg ctaagtttgc 180

tgagtatgaa aagaaataca aggaggaagc tgcagaattg aaatctatta tcaatggt 238

<210> 366
<211> 253
<212> DNA
<213> Glycine max

<400> 366

gggtgccaaa gaagttgatg ccacaaggca gaaccttgga tggtcacatg agccattcca 60

cgtgcctgag gatgtcaaaa agcattggag tcgccacacc cctgagggtg ctgcacttga 120

agctgagtgg aatgctaagt ttgctgagta tgaaaagaaa tacaaggagg aagctgcaga 180

attgaaatct attatcaatg gtgaattccc tgctggttgg gagaaagcac ttccgacata 240

cactccagag agc 253

<210> 367
<211> 171
<212> DNA
<213> Glycine max

<400> 367

gttctcctaa caaggctaac tcctacagtg tgcatggaag tgcactgggt gccaaagaag 60

ttgatgccac aaggcagaac cttggatggt cacatgagcc attccacgtg cctgaggatg 120

tcaaaaagca ttggagtcgc cacacccctg agggtgctgc acttgaagct g 171

<210> 368
<211> 277
<212> DNA
<213> Glycine max

<400> 368

atacgagcct ttccatgtgc cagaagatgt taaaaagcat tggagtcgcc atacccctga 60

gggtgctaaa cttgaagctg agtggaatgc caagtttgca gaatatgaga agaaatacag 120

tgaggaagct gcagagctga aggctattat tactgtgaat taccagctgg ttgggagaaa 180

gcacttccga catacactcc agaaagccct gctgatgcta caagaaatct gtctcagcaa 240

aatctaaatg cccttgttaa ggttcttcct ggtctac 277

<210> 369
<211> 268
<212> DNA
<213> Glycine max

<400> 369

gctacaagga agaatcttgg atggccatac gagcctttcc atgtgccaga agatgtcaag 60

aagcattgga gtcgccatac acctgagggt gctaaacttg aagctgagtg gaatgccaag 120

tttgtggaat atgagaagca atacagtgag gaagctgcag agctgaaggc tattattact 180

ggcgaattac cagcaagttg ggagaaagca cttccgacat acacaccaga aagccctgct 240

gatgctacaa gaaatctgtc tcagcaaa 268

<210> 370
<211> 258
<212> DNA
<213> Glycine max

<400> 370

taaagaagca aaggctgtca aagacaaacc cactttgatc aaggtaacca ctaccattgg 60

atttggttct ccaaacaagg ctaattccta cagtgttcat gggagtgcat taggtgctaa 120

agaagtggat gctacaagga agaatcttgg atggccatac gagcctttcc atgtgccaga 180

agatgtcaag aagcattgga gtcgccatac acctgagggt gctaaacttg aagctgagtg 240

gaatgccaag tttgtgga 258

<210> 371
<211> 247
<212> DNA
<213> Glycine max

<400> 371

gccatacccc tgagggtgct aaacttgaag ctgagtggaa tgccaagttt gcagaatatg 60

agaagaaata cagtgaggaa gctgcagagc tgaaggctat tattactggt gaattaccag 120

ctggttggga gaaagcactt ccgacataca ctccagaaag ccctgctgat gctacaagaa 180

atctgtctca gcaaaatcta aatgcccttg ttaaggttct tcctggtcta cttggtggca 240

gtgcaga 247

<210> 372
<211> 264
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 372

ggagtcgcca tacacctgag ggtgctaaac ttgaagctga gtggtntgcc aagtttgtgg 60

aatatgagaa gcaatacagt gaggaagctg cagagctgaa ggctattatt actggcgaat 120

taccagctgg ttgggagaaa cacttccgac atacacacca gaaagccctg ctgatgctac 180

aagaaatctg tctcagcaaa atctaaatgc ccttgttaag gttcttcctg gtctacttgg 240

tggtagtgca gatcttgcct cttc 264

<210> 373
<211> 245
<212> DNA
<213> Glycine max

<400> 373

gtggaatgcg aagtttgcag aatatgagaa gacatacagt gaggaagctg cagagctgaa 60

ggctattatt actggtgaat taccagctgg ttgggagaaa gcacttccga catacactcc 120

agaaagccct gctgatgcta caagaaatct gtctcagcaa aatctaaatg cccttgttaa 180

ggttcttcct ggtctacttg gtggcagtgc agatcttgcc tcttccaaca tgaccttgtt 240

gaaat 245

<210> 374
<211> 242
<212> DNA
<213> Glycine max

<400> 374

tggaatgcca agtttgcaga atatgagaag aaatacagtg aggaagctgc agagctgaag 60

gctattatta ctggtgaatt accagctggt tgggagaaag cacttccgac atacactcca 120

gaaagccctg ctgatgctac aagaaatctg tctcagcaaa atctaaatgc ccttgttaag 180

gttcttcctg gtctacttgg tggcagtgca gatcttgcct cttccaacat gaccttgttg 240

aa 242

<210> 375
<211> 246
<212> DNA
<213> Glycine max

<400> 375

gcagaatatg agaagaaata cagtgaggaa gctgcagagc tgaaggctat tattactggt 60

gaattaccag ctggttggga gaaagcactt ccgacataca ctccagaaag ccctgctgat 120

gctacaagaa atctgtctca gcaaaatcta aatgcccttg ttaaggttct tcctggtcta 180

cttggtggca gtgcagatct tgcctcttcc aacatgacct tgttgaaatc atacggagat 240

ttccaa 246

<210> 376
<211> 236
<212> DNA
<213> Glycine max

<400> 376

ggatgctaca aggaagaatc ttggatggcc atacgagcct ttccatgtgc cagaagatgt 60

caagaagcat tggagtcgcc atacacctga gggtgctaaa cttgaagctg agtggaatgc 120

caagtttgtg gaatatgaga agcaatacag tgaggaagct gcagagctga aggctattat 180

tactggcgaa ttaccagctg gttgggagaa agcacttccg acatacacac cagaaa 236

<210> 377
<211> 253
<212> DNA
<213> Glycine max

<400> 377

attggagtcg ccataccccct gagggtgcta aacttgaagc tgagtggaat gccaagtttg 60

cagaatatga gaagaaatac agtgaggaag ctgcagagct gaaggctatt attactggtg 120

aattaccagc tggttgggag aaagcacttc cgacatacac tccagaaagc cctgctgatg 180

ctacaagaaa tctgtctcag caaaatctaa atgccctttt aaggttcttc ctggtctact 240

tggtggcagt gca 253

<210> 378
<211> 250
<212> DNA
<213> Glycine max

<400> 378

acagtgttca tgggagtgcg ttaggtgcta aagaagtgga tgctacaagg tagaatctgg 60

gatggccata cgagcctttc catgtgccag aacgtgtcaa gaagcattgg agtcgccata 120

cacctgaggg tgctaaactt gaagctgagt ggaatgccaa gtttgtggaa tatgagaagc 180

aatacagtga ggaagctgca gagctgaagg ctattattac tggcgaatta ccagctggtt 240

gggagaaagc 250

<210> 379
<211> 268
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 379

aaacaaggct aattcctaca gtgttcatng gagtncatta ggtgctaaag aagncgatgc 60

tacaaggnag aatcttggat ggccatacga gcctttccat gtgccagang atgtcaagaa 120

gcattggagt cgccatacac ctgagggtgc taaacttgaa gctgagtgga atgccaagtt 180

tgtggaatat gagaagcaat acagtgaggn agctgcagag tgaaggctat tattactggc 240

gaattaccag ctggttggna nanancct 268

<210> 380
<211> 248
<212> DNA
<213> Glycine max

<400> 380

tgctaaagaa gtggatgcta caaggaagaa tcttggatgg ccatacgagc ctttccatgt 60

gccaacagat gtcaagaagc attggagtcg ccatacacct gagggtgcta aacttgaagc 120

tgagtggaat gccaagtttg tggaatatga gaagcaatac agtgaggaag ctgcagagct 180

gaaggctatt attactggcg aattaccagc tggttgggag aacgcacttc cgacatacac 240

accagaaa 248

<210> 381
<211> 167
<212> DNA
<213> Glycine max

<400> 381

tgcacttccg atctacacac cagatagccc tgctgatgct acaagaaatc tgtctcagca 60

aaatctaaat gcccttgtta aggttcttcc tggtctactt ggtggtagtg cagatcttgc 120

ctcttccaac atgaccttat tggaatcgta tggggatttc caaaaga 167

<210> 382
<211> 173
<212> DNA
<213> Glycine max

<400> 382

atgggagtgc attaggtgct aaagaagtgg atgctacaag gaagaatctt ggatggccat 60

acgagccttt ccatgtgcca gaagatgtac aagagcattg gagtcgccat acacctgagg 120

gtgctaaact tgaagctagt ggaatgccaa gtttgtggaa tatgagaagc aat 173

<210> 383
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 383

ttggatttgg ttctccaaac aagggctaat tcctacagtg ttcatgggag tgcattaggt 60

gctaaaagaa gtngatgcta caaggaagaa tcttggatgg ccatacgagc ctttccatgt 120

gccagaagat gtcaagaagc attggagtcg ccatacactg agggtgctaa acttgaagct 180

gagtggaatg ccaagtttgt ggaatatgag aagcaataca gtgaggaagc tgcagagctg 240

aaggctatta tactggcgat taccagctgg ttgggagaaa gcattccgac atacacac 298

<210> 384
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 384

gttagatttg gtgttagtga acatggaatg ggagcaatct gtaatggtat tgctcttcat 60

agccccggat tcattccata ctgtgcaact ttctttgtct tcactgacta catgagagct 120

gccataagga tttctgcact gtgtgaagct ggagttatnc nagtgatgac tcatgattcg 180

attggacttg gagaggatgg accaactcat cagccaatag agcacttggc aagcttcagg 240

gcaatgccaa acatttgatg cttcgtccag ctg 273

<210> 385
<211> 295
<212> DNA
<213> Glycine max

<400> 385

gttaggtttg gtgttagaga acatggattg ggagcaatct gtaacggtat tgctcttcat 60

agttccggat tcattccata ctgtgcaact ttctttgtct tcactgacta tatgagagct 120

gccataagga tttctgcact gtgtcgggct ggagttattt atgtgatgac tcatcattcg 180

attggacttg gagaggatgg accaactcat cagccaatag agtatttggc aagcttcagg 240

gcaatgcctc acactttgat gcttcgtcca gctgatgtat atgaactgct ggatc 295

<210> 386
<211> 260
<212> DNA
<213> Glycine max

<400> 386

gcaaaatcta aatgcccttg ttaaggttct tcctggtcta cttggtggta gtgcagatct 60

tgcctcttcc aacatgacct tattgaaatc gtatggggat ttccaaaaga atactcccga 120

agagcgcaat gttaggtttg gtgttagaga acatggaatg ggagcaatct gtaacggtat 180

tgctcttcat agccccggat tcattccata ctgtgcaact ttctttgtct tcactgacta 240

tatgagagct tccataagga 260

<210> 387
<211> 249
<212> DNA
<213> Glycine max

<400> 387

gcctcttcca acatgacctt gttgaaatca tacggagatt tccaaaagaa tactcccgaa 60

gagcgcaatg ttagatttgg tgttagagaa catggaatgg gagcaatctg taatggtatt 120

gctcttcata gccccggatt cattccatac tgtgcaactt tctttgtctt cactgactac 180

atgagagctg ccataaggat ttctgcactg tgtgaagctg gagttattta tgtgatgact 240

catgattcg 249

<210> 388
<211> 252
<212> DNA
<213> Glycine max

<400> 388

gggatttcca aaagaatact cccgaagagc gcaatgttag gtttggtgtt agagaacatg 60

gaatgggagc aatctgtaac ggtattgctc ttcatagccc cggattcatt ccatactgtg 120

caactttctt tgtcttcact gactatatga gagctgccat aaggatttct gcactgtgtg 180

aagctggagt tatttatgtg atgactcatg attcgattgg acttggagag gatggaccaa 240

ctcatcagcc aa 252

<210> 389
<211> 255
<212> DNA
<213> Glycine max

<400> 389

agcagatctt gcctcttcca acatgacctt attgaaatcg tatggggatt tccaaaagaa 60

tactcccgaa gagcgcaatg ttaggtttgg tgttagagaa catggaatgg gagcaatctg 120

taacggtatt gctcttcata gccccggatt cattccatac tgtgcaactt tctttgtctt 180

cactgactat atgagagctg ccataaggat ttctgcactg tgtgaagctg gagttattta 240

tgtgatgact catga 255

<210> 390
<211> 260
<212> DNA
<213> Glycine max

<400> 390

gggagcaatc tgtaatggta ttgctcttca tagccccgga ttcattccat actgtgcaac 60

ttttttttgtc ttcactgact acatgagagc tgccataagg atttctgcac tgtgtgaagc 120

tggagttatt tatgtgatga ctcatgattc gattggactt ggagaggatg gaccaactca 180

tcagccaata gagcacttgg caagcttcag ggcaatgcca aacactttga tgcttcgtcc 240

agctgatggt aatgaaactg 260

<210> 391
<211> 238
<212> DNA
<213> Glycine max

<400> 391

ccggattcat tccatactgt gcaactttct ttgtcttcac tgactatatg agagctgcca 60

taaggatttc tgcactgtgt gaagctggag ttatttatgt gatgactcat gattcgattg 120

gacttggaga ggatggacca actcatcagc caatagagca tttggcaagc ttcagggcaa 180

tgccaaacac tttgatgctt cgtccagctg atggtaatga aactgctgga tcatacaa 238

<210> 392
<211> 248
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 392

gcaaaatcta aatgcccttg ttaaggttct tcctggtcta cttggtgnnc gtgcagatct 60

tgcctcttcc aacanngacc ttgttgaaat catacggaga tttccaaaag aatactcccg 120

aagagcgcaa tgttagattt ggtgttagag aacatggaat gggagcaatc tgtaatggta 180

ttgcncttca tagccccgga ttcatccata ctgtgcaact tttnttgtct tcatggacta 240

catgagag 248

<210> 393
<211> 167
<212> DNA
<213> Glycine max

<400> 393

catgacctta ttgaaatcgt attgggattt ccaaaagact actcccgaag agcgcaatgt 60

taggtttggt gttagagaac atggaatggg agcaatctgt aacggtattg ctcttcatag 120

acccggattc attccatact gtgcaacttt ctttgtcttc actgact 167

<210> 394
<211> 91
<212> DNA
<213> Glycine max

<400> 394

gactacatga gagctgccat aaggatttct gcactgtgtg aaagctggag ttatttatgt 60

gatgactcat ggattcgatt ggacttggag a 91

<210> 395
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 395

tgaattccga caatggggga gcaggactcc tggacatcct gagaactttg agacagttgg 60

aattgaagtg actacaggtc ctcttggtca gggcattgcc aatgctgttg ggttagcact 120

agctgagaaa cacttggctg cacgatttaa caagcctgac aatgagattg ttgaccatta 180

cacatatgtt atattgggtg atggttgtca aatggaggga atttcaaatg aagcatgctc 240

acttgccggt cactggggtc tagggaagct tatngcttta atgatgac 288

<210> 396
<211> 262
<212> DNA
<213> Glycine max

<400> 396

caagacctta aggaattccg acaatgggga agcagaactc ctggacatcc tgagaacttt 60

gagacccttg gagttgaagt gaccacaggt cctcttggtc agggcattgc caatgctgtt 120

ggattagcac tagctgagaa gcacttggct gcacgattta acaagcctga caatgagatt 180

gttgaccatt acacatatgt tatattgggt gatggttgtc aaatggaggg aatttcaaat 240

gaagcatgct cacttgccgg tc 262

<210> 397
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 397

cgcttggntc aaccntgacc gtttcgttct ctctgctgga tctggctgca tgctccaata 60

tgctctcctt cancttgctg gctatnacac tgttcaggaa caagacctta aggaattccg 120

acaatgggga agcagaactc ctggacatcc tgagaacttt gagacccttg gagttgaagt 180

gaccacaggt cctcttggtc agggcattgc caatgctgtt ggattagcat agctgagaag 240

cacttggctg cacgattaac aagcctgaca atgagatgt 279

<210> 398
<211> 254
<212> DNA
<213> Glycine max

<400> 398

tgacactgtt caggaacaag accttaagga attccgacaa tggggaagca gaactcctgg 60

acatcctgag aactttgaga cccttggagt tgaagtgacc acaggtcctc ttggtcaggg 120

cattgccaat gctgttggat tagcactagc tgagaagcac ttggctgcac gatttaacaa 180

gcctgacaat gagattgttg accattacac atatgttaat tgggtgatgg ttgtcaaatg 240

gagggaattt caaa 254

<210> 399
<211> 264
<212> DNA
<213> Glycine max

<400> 399

gttgaaaagg gtggttacac catttcggac aactccactg gcaacaagcc tgatgtcatt 60

ttgatcggaa ctggttcgga attggaaatc gctgccaaag ctgctgatga cctaaggaag 120

gaagggaagg ctgttagagt tgtttccctt gtttcttggg aacttttga tgagcaatca 180

gaagcctaca aggagagtgt tttccctgct gctgtttcag ccagagttag cattgaggca 240

ggatcaacat ttgggtggga gaaa 264

<210> 400
<211> 258
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 400

gttgaaaagg gtggttacac catttcggac aactccactg gcaacaagcc tgatgtcatt 60

ttgatcggaa ctggttcgga attggaaatc gctgccaaag ctgctgatga cctaaggaag 120

gaagggaagg ctgttagagt tgtttccctt gtttcttggg aacttttga tgagcaatca 180

gnagcctaca aggagagtgt tttccctgct gctgtttcag ccagagttag cattgaggca 240

ggatcaacat ttgggtgg 258

<210> 401
<211> 249
<212> DNA
<213> Glycine max

<400> 401

gagttgaaaa gggtggttac accatttcgg acaactccac tggcaacaag cctgatgtca 60

ttttgatcgg aactggttcg gaattggaaa tcgctgccaa agctgctgat gacctaagga 120

aggaagggaa ggctgttaga gttgtttccc ttgtttcttg ggaacttttt gatgagcaat 180

cagaagccta caaggagagt gttttccctg ctgctgtttc agccagagtt agcattgagg 240

caggatcaa 249

<210> 402
<211> 273
<212> DNA
<213> Glycine max

<400> 402

gagttgaaaa gggtggttac accatttcgg acaactccac tggcaacaag cctgatgtca 60

ttttgatcgg aactggttcg gaattggaaa tcgctgccaa agctgctgat gacctaagga 120

aggaagggaa ggctgttaga gttgtttccc ttgtttcttg ggaacttttt gatgagcaat 180

cagaagccta caaggagagt gttttccctg ctgctgtttc agccagagtt agcattgagg 240

caggatcaac atttgggtgg gagaaaattg ttg 273

<210> 403
<211> 256
<212> DNA
<213> Glycine max

<400> 403

cactcttctt cttcttcttc ttcttcactc tacaaccact aaactaagtg gttggttttg 60

gtttagtttc atttttttga agctcttaaa cttaaggctt aagccatggc atcctcatcc 120

tctctgcatc tatctcaggc ccttctggca cgtgctgtgt accttcatgg ctcttcttct 180

tctgaccgtg tctcactctc cttcccatca ttctctggcc tcaagtcaca ttctgcatgc 240

tccaatatgc tctcct 256

<210> 404
<211> 233
<212> DNA
<213> Glycine max

<400> 404

ctaaactaag tggttggttt tggtttagtt tcatttttt gaagcgctta aacttaaggc 60

ttaagccatg gcatcctcat cctctctgca tctatctcag gcccttctgg cacgtgctgt 120

gtaccttcat ggctcttctt cttctgaccg tgtctcactc tccttcccat cattctctgg 180

cctcaagtca cattctacat gcaaagcagc agtagccacg tcctcgcgta gaa 233

<210> 405
<211> 247
<212> DNA
<213> Glycine max

<400> 405

aactaagtgg ttggttttgg tttagtttca ttttttttgaa gctcttaaac ttaaggctta 60

agccatggca tcctcatcct ctctgcatct atctcaggcc cttctggcac gtgctgtgta 120

ccttcatggc tcttcttctt ctgaccgtgt ctcactctcc ttcccatcat tctctggcct 180

caagtcacat tctacatgca aagcagcagc agccacgtcc tcgcgtagaa ggggtgcttg 240

tccatcc 247

<210> 406
<211> 243
<212> DNA
<213> Glycine max

<400> 406

aaacactctt cttcttcttc ttcttcttca ctctacaacc actaaactaa gtggttggtt 60

ttggtttagt ttcatttttt tgaagctctt aaacttaagg cttaagccat ggcatcctca 120

tcctctctgc atctatctca ggcccttctg gcacgtgctg tgtaccttca tggctcttct 180

tcttctgacc gtgtctcact ctccttccca tcattctctg gcctcaagtc acattctaca 240

tgc 243

<210> 407
<211> 215
<212> DNA
<213> Glycine max

<400> 407

ttttggttta gtttcattgt tctgaagctc ttaaacttaa ggcttaagcc atggcatcct 60

catcctctct gcatctatct caggcccttc tggcacgtgc tgtgtacctt catggctctt 120

cttctctgac cgtgtctcac tctccttccc atcattctct ggcctcaagt cacattctac 180

atgcaaagca gcagcagcca cgtcctcgcg tagaa 215

<210> 408
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 408

tcttcttctt cactctacaa ccactannct aagtggttgg ttttggttta gtttcatttt 60

tttgaagctc ttaaacttaa ggcttaagcc atggcatcct catcctctct gcatctatct 120

caggcccttc tggcacgtgc tgtgtacctt catggctctt cttcttctga ccgngtctca 180

ctctccttcc catcattctc tggcctcaag tcacattcta catgcaaagc agcancagcc 240

acgtcctcgc gtagaagggg tgcttgtcca tccacc 276

<210> 409
<211> 289
<212> DNA
<213> Glycine max

<400> 409

tcttcttctt cttcttcttc actctacaac cactaaacta agtggttggt tttggtttag 60

tttcattttt ttgaagctct taaacttaag gcttaagcca tggcatcctc atcctctctg 120

catctatctc aggcccttct ggcacgtgct gtgtaccttc atggctcttc ttcttctgac 180

cgtgtctcac tctccttccc atcattctct ggcctcaagt cacattctac atgcaaagca 240

gcagcagcca cgtcctcgcg tagaaggggt gcttgtccat ccaccaacg 289

<210> 410
<211> 221
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 410

tcttcttctt cactctacaa ccactaaact aagtggttgg ntttggttta gtttcatttt 60

tttgaagctc ttaaacttaa ggcttaagcc atggcatcct catcctctct gcatctatct 120

caggcccttc tggcacgtgc tgtgtacctt catggctctt cttcttctga ccgngtctca 180

ctctccttcc catcattctc tggcctcaag tcacattcta t 221

<210> 411
<211> 255
<212> DNA
<213> Glycine max

<400> 411

cttcttcttc ttcttcttct tcactctaca accactaaac taagtggttg gttttggttt 60

agtttcattt ttttgaagct cttaaactta aggcttaagc catggcatcc tcatcctctc 120

tgcatctatc tcaggccctt ctggcacgtg ctgtgtacct tcatggctct tcttcttctg 180

accgtgtctc actctccttc ccatcattct ctggcctcaa gtcacattct acatgcaaag 240

cagcagcagc cacgt 255

<210> 412
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 412

anattgtaga ccantanaca tatgtnatat tnggtgatgg ntgtcaaatg gagggantnt 60

caaatgaagc atgctcactt gccggtcact ggggtctagg gaagcttatn gcttnatatg 120

atgacaacca catttccatt gatggggaca ctgagattgc attcactgag aatgttgatc 180

aacgttttga ggcacttggg tggcatgtaa tttgggtgaa gaatggaaat actggatatg 240

atgaaattcg tgcagccatt aaggaagcaa aggctgtcaa agacgaaccc actatgatcc 300

aggtaaccac taccattgga ttggttctcc aaa 333

<210> 413
<211> 260
<212> DNA
<213> Glycine max

<400> 413

aacaagcctg acaatgagat tgttgaccat tacacatatg ttatattggg tgatggttgt 60

caaatggagg gaatttcaaa tgaagcttgc tcacttgccg gtcactgggg tctaggaaag 120

ctcattgctt tatatgatga caatcacatt tccattgatg gtgacactga gattgcattc 180

actgagaatg ttgatcagcg ttttgaagca cttggatggc atgtaatttg ggtgaagaat 240

ggaaatactg gatatgatga 260

<210> 414
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 414

cacttggctg cacgatttaa caatcctgnc antgagattg ttgaccatta nacatatgtt 60

atattgggtg atggttgtca aatggaggga atttcaaatg aagcatgctc acttgccgnc 120

tcactggggt ctagggaagc ttattgcttt ntatgatgac aaccacattt ccattnctgg 180

ggacactgag attgcattca ctgagantgt tgatcaacgt ttgaggcact tgggtggcat 240

gtaatttggg tgaagaatgg anatactgga tatgatgaaa ttcgtgcg 288

<210> 415
<211> 242
<212> DNA
<213> Glycine max

<400> 415

gaatttcaaa tgaagcatgc tcacttgccg gtcactgggg tctagggaag cttattgctt 60

tatatgatga caaccacatt tccattgatg gggacactga gattgcattc actgagaatg 120

ttgatcaacg ttttgaggca cttgggtggc atgtaatttg ggtgaagaat ggaaatactg 180

gatatgatga aattcgtgca gccattaagg aagcaaaggc tgtcaaagac aaacccacta 240

tg 242

<210> 416
<211> 251
<212> DNA
<213> Glycine max

<400> 416

caaatggagg gaatttcaaa tgaagcatgc tcacttgccg gtcactgggg tctagggaag 60

cttattgctt tatatgatga caaccacatt tccattgatg gggacactga gattgcattc 120

actgagaatg tgatcaacgt tttgaggcac ttgagtggca tgtaatttgg gtgaagaatg 180

gaaatactgg atatgatgaa attcgtgcag ccattaagga agcaaaggct gtcaaagaca 240

cccactatga t 251

<210> 417
<211> 245
<212> DNA
<213> Glycine max

<400> 417

gcacgattta acaagcctga caatgagatt gttgaccatt acacatatgt tatattgggt 60

gatggttgtc aaatggaggg aatttcaaat gaagcatgct cacttgccgg tcactggggt 120

ctagggaagc ttattgcttt atatgatgac aaccacattt ccattgatgg ggacactgag 180

attgcattca ctgagaatgt tgatcaacgt tttgaggcac ttgggtggca tgtaatttgg 240

gtgaa 245

<210> 418
<211> 249
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 418

gttgatcang cgttttgnaa gcacttggat ggcatgtaat ttgggtgaag natggaaata 60

ctggatatga tgaaattgcg tgcagccatt aaagaagnaa aggctgtcaa agacaaaccc 120

actttgatca aggtanccac tagnattgga ttaggttctc caaacaaggc taattcncac 180

agtgttcatg ggncgtgcat taggtgctaa agaagtggat gctacnangn anaatnttgg 240

atggcnata 249

<210> 419
<211> 240
<212> DNA
<213> Glycine max

<400> 419

cattgatgca gttgagaagg ccaactctgg tcaccctggt ctccccatgg ggtgtgctct 60

aatgggctca cattctctac gatgagataa tgaggtacaa ttctaagaac cccgcttggt 120

tcaaccgtga cgtttcgttc tctctgctgg acatggctgc atgctccaat atgctctcct 180

tcaccttgct ggctatgaca ctgttcagga acaagacctt aaggaattcc gacaatgggg 240

<210> 420
<211> 283
<212> DNA
<213> Glycine max

<400> 420

caagattgtt ggaagcaaag gaaaggccat aggcattgat cgatttggag caagtgctcc 60

agctggaaaa atatacaagg agtttggtat caccaaggaa gctgttattg ctgctgccaa 120

agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtggttttc 180

acttgtggct ttgggttact gttacatgac ttgtttttg agatatcact ttagccacaa 240

taaggaagat tagatgttct gcatatgatt gtcagaggaa cca 283

<210> 421
<211> 259
<212> DNA
<213> Glycine max

<400> 421

caagattgtt ggaagcaaag gaaaggccat aggcattgat cgatttggag caagtgctcc 60

agctggaaaa atatacaagg agtttggtat caccaaggaa gctgttattg ctgctgccaa 120

agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtggttttc 180

acttgtggct ttgggttact gttacatgac ttgtttttg agatatcact ttagccacaa 240

taaggaagat tagattgtt 259

<210> 422
<211> 256
<212> DNA
<213> Glycine max

<400> 422

caagattgtt ggaagcaaag gaaaggccat aggcattgat cgatttggag caagtgctcc 60

agctggaaaa atatacaagg agtttggtat caccaaggaa gctgttattg ctgctgccaa 120

agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtggttttc 180

acttgtggct ttgggttact gttacatgac ttgtttttg agatatcact ttagccacaa 240

taaggaagat tagatt 256

<210> 423
<211> 271
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 423

aaaggaaagg ccataggcat tgatcgattt ggagcaagtg ctccagctgg aaaaatatac 60

aaggagtttg gtatcaccaa ggaagctgtt attgctgctg ccaaagaact ttcgtaatat 120

atttgttgag tntcttttat ctcatctaga acttgtggtt ttcacttgtg gctttgggtt 180

actgttacat gacttgtttt ttgagatatc actttagcca caatanggaa gatagattgt 240

tcttgcatat gattgtcaga ggaaccactt a 271

<210> 424
<211> 258
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 424

tctgcactgt gtgaagctgg agttatttat gtgatgactc atgattcgat tggacttgga 60

gaggatggac caactcatca gccaatagag catttggcaa gcttcagggc aatgccaaac 120

actttgatgc ttgtccagct gatggnaatg aaactgctgg atcatacaaa gttgctgtgg 180

ttaacaggaa gagaccctca attcttgcac tttctaggca aaagttgacc caacttccag 240

ganttctatt gagggagt 258

<210> 425
<211> 209
<212> DNA
<213> Glycine max

<400> 425

gctgatggta atgaaactgc tggatcatac aaagttgctg tggttaacag gaagagaccc 60

tcaattcttg cactttctag gcaaaagttg acccaacttc caggaacttc tattgaggga 120

gttgaaaagg gtggctacac catttcagac aactcatcag gtaacaagcc tgatgttatt 180

ttgattggaa ctggttctga gttggaaat 209

<210> 426
<211> 257
<212> DNA
<213> Glycine max

<400> 426

cgaccaactc atcagccaat agagcatttg gcaagcttca gggcaatgcc aaacacttag 60

atgcttcgtc cagctgatgg taatgaaact gctggatcat acaaagttgc tgtggttaac 120

aggtagagac cctcaattct tgcactttct aggcaaaagt tgacccaact tccaggaact 180

tctattgagg gatttgaaaa gggtggctac accattctcg aacagctcat caggtaacaa 240

gccggatgtt attttga 257

<210> 427
<211> 246
<212> DNA
<213> Glycine max

<400> 427

gctgtggtta acaggaagag accctcaatt cttgcacttt ctaggcaaaa gttgacccaa 60

cttccaggaa cttctattga gggagttgaa aagggtggct acaccatttc agacaactca 120

tcaggtaaca agcctgatgt tattttgatt ggaactggtt ctgagttgga aattgctgct 180

gctgctgctg aggatctagg aaaggaagga aaagctgtta gagttgtttc ttttgttagc 240

tgggaa 246

<210> 428
<211> 168
<212> DNA
<213> Glycine max

<400> 428

gaccaactca tcagccaata gagcacttgg caagcttcag ggcaatgcca aacactttga 60

tgcttcgtcc agctgatggt aatgaaactg ctggatcata caaagttgct gtggttaaca 120

ggaagagacc ctcaattctt gcactttcta ggcaaaagtt gacccaac 168

<210> 429
<211> 168
<212> DNA
<213> Glycine max

<400> 429

aattcttgca ctttctaggc aaaagttgac ccaacttcca ggaacttcta ttgagggagt 60

tgaaaagggt ggctacacca tttcagacaa ctcatcaggt aacaagcctg atgttatttt 120

gattggaact ggttctgagt tggaaattgc tgctgctgct gctgagga 168

<210> 430
<211> 254
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 430

ctcatgattc gattggactt gggagaggat ggaccaacta catcagccaa tagagcattt 60

ngcaagcttc agggcaatgc caaacacttn cntgcttcgt ccagctatgg taatgaaact 120

gctggatcat acaaagttgc tgtggttaac aggaagagac cctcaattct tgcactttct 180

agncaaaagt tgacccaact tccaggaact tctattggag gtgaaaaggg tggctacacc 240

atttcagana actc 254

<210> 431
<211> 117
<212> DNA
<213> Glycine max

<400> 431

aattcttgca cttgctaggc aaaagttgac ccagcttcca ggaacttcta ttgagggagt 60

tgaaaagggt ggctacacca tttcagacaa ctcatcaggt aacaagcctg atgttat 117

<210> 432
<211> 263
<212> DNA
<213> Glycine max

<400> 432

atgagaggtg ccataaagct ttctgcgctg tctgaggctg gggttattta atgtcatgac 60

ccatgattca ataggacttg gagaagatgg gccaacccac cagcctattg agcacctagc 120

aagcttccgg gcaatgccaa acattttgat gcttcgtccc gccgacggta acgaaacagc 180

cggagcatac aaagtggccg tgctcaacag gaagagaccc tccattcttg ccctatccag 240

gcaaaaactg ccccagcttc ccg 263

<210> 433

<211> 257
<212> DNA
<213> Glycine max

<400> 433

cattttgatg cttcgtcctg ccgacggtaa cgaaacagcc ggagcataca aagtggccgt 60

gctcaacagg aagagaccct ccattcttgc cctatccagg caaaaactgc cccagcttcc 120

cggaacttcc attgaaggag ttgaaaaggg tggttacacc atttcggaca actccactgg 180

caacaagcct aatgacattt ggaccggaac tggttcggaa ttggaaatcg ctgccaaagc 240

tgctgatgac ctaagga 257

<210> 434
<211> 253
<212> DNA
<213> Glycine max

<400> 434

tcatgaccca tgattcaata ggacttggag aagatgggcc aacccaccag cctattgagc 60

acctagcaag cttccgggca atgccaaaca ttttgatgct tcgtcccgcc gacggtaacg 120

aaacagccgg agcatacaaa gtggccgtgc tcaacaggaa gagaccctcc attcttgccc 180

tatccaggca aaaactgccc cagcttcccg gaacttccat tgaaggagtt gaaaagggtg 240

gttacaccat ttc 253

<210> 435
<211> 134
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 435

ttggagaaga tgggccaacc caccagccta ttgagcacct agnnagcttc cgggcaatgc 60

caaacatttt gatgcttcgt cccgccgacg gtaacgaaac agccgnagca taccaagtgg 120

ccgtgtcaac aggg 134

<210> 436
<211> 387
<212> DNA
<213> Glycine max

<400> 436

cccacgcgtc cgcccacgcg tccgggtcac aacaaccatt ggttatggtt ctcctaacaa 60

ggctaactcc tacagtgtgc atggaagtgc actgggtgcc aaagaagttg atgccacaag 120

gcagaacctt ggatggtcac atgagccatt ccacgtgcct gaggatgtca aaaagcattg 180

gagtcgccac acccctgagg gtgctgcact tgaagctgaa tggaatgcta agtttgctga 240

gtatgaaaag aaatacaagg aggaagctgc agaattgaaa tctattatca atggtgaatt 300

ccctgctggt tgggagaaag cactttcgac atacactcca gagagcccag cggatgccac 360

cagaaacctg tctcaaacaa accttaa 387

<210> 437
<211> 316
<212> DNA
<213> Glycine max

<400> 437

ggggttattt atgtcatgac ccatgattca ataggacttg gagaagatgg gccaacccac 60

caccctattg agcacctagc aagcttccgg gcaatgccaa acattttgat gcttcgtccc 120

gccgacggta acgaaacagc cggagcatac aaagtggccg tgctcaacag gaagagaccc 180

tccattcttg ccctgtccag gcaaaaactg ccccagcttc ccggaacttc cattgaagga 240

gttgaaaagg gtggttacac catttcggac aactccactg gcaacaagcc tgatgtcatt 300

ttgatcggaa ctggtt 316

<210> 438
<211> 301
<212> DNA
<213> Zea mays

<400> 438

gtcatcttcc acgtctccaa gaccggcggc cacctcgggt ccagcctcgg cgtggtggag 60

ctcaccgtcg cgctgcacta cgtcttcaac gcgccgcagg accgcatcct ctgggacgtc 120

ggccaccagt cgtacccgca caagatcctg acggggcggc gcgacaagat gccgacgatg 180

cggcagacca acggcctggc gggcttcccc aagcgcgccg agagcgagta cgacagcttc 240

ggcacgggcc acagctccac caccatctcc gcggcgctcg ggatggcggt gggccgggac 300

c 301

<210> 439
<211> 265
<212> DNA
<213> Zea mays

<400> 439

cggtgccgcc caactacaaa ggcactcccc tcgaggtcgg caaaggcagg atcctgcttg 60

agggcgaccg ggtggcgctg ctggggtacg ggtcggcagt gcagtactgc ctgactgccg 120

cgtccctggt gcagcgccac ggcctcaagg tcaccgtcgc cgacgcgagg ttctgcaagc 180

cgctggacca cgccctgatc aggagcctgg ccaagtccca cgaggtgctc atcaccgtgg 240

aggaaggctc catcggcggg ttcgg 265

<210> 440
<211> 245
<212> DNA
<213> Zea mays

<400> 440

gtgggccggg acctcaaggg cggcaagaac aacgtggtcg cggtgatcgg cgacggcgcc 60

atgacggccg ggcaggcgta cgaggccatg aacaacgccg ggtacctgga ctccgacatg 120

atcgtcatcc tcaacgacaa caagcaggtg tccttgccca cggcgacgct cgacgggccg 180

gtgccgcccg taggcgcgct cagcagcgac ctcagcaagc tgcagtcaag caggccgctc 240

aagga 245

<210> 441
<211> 156
<212> DNA
<213> Zea mays

<400> 441

gaagcaggtc ggtggctcag tgcacgagct ggcggcgaag gtggacgagt acgcccgcgt 60

catgatcagc gggcccggct cctcgctctt cgaggagctc ggtctctact acatcggccc 120

cgtcgacggc cacaacatcg acgacctcat caccat 156

<210> 442
<211> 271
<212> DNA
<213> Zea mays

<400> 442

gtgtacgtga cggtagccga cgcccggttc tgcaagccgc tggacacggc gctgatccgg 60

gagctcgccg ccgagcacga ggtgctgatc accgccgagg agggatccat cggcgggttc 120

ggctcccacg tcgcacacta cctcagcctg accggcctcc tggacgggcc cctcaaactg 180

agatccatgt tcctgccgga ccggtacatc gaccatggcg caccgcagga ccagatcgag 240

gattcagggc tgacgccgcg gcacatcgcc g 271

<210> 443
<211> 288
<212> DNA
<213> Zea mays

<400> 443

ccgacgcccg gttctgcaag ccgctggaca cggcgctgat ccgggagctc gccgccgagc 60

acgaggtgct gatcaccgcc gaggagggat ccatcggcgg gttcggctcc cacgtcgccc 120

actacctcag cctgaccggc ctcctggacg ggcccctcaa actgagatcc atgttcctgc 180

cggaccggta catcgaccat ggcgcaccgc aggaccagat cgatgaggca gggctgacgc 240

gcggcacatc gccgccaccg tgctgtccct gctggggagg ccattgga 288

<210> 444
<211> 340
<212> DNA
<213> Zea mays

<400> 444

aagagcacca agaccaccgg ccccgtcctc atccacgtcg tcaccgagaa gggccgcggc 60

taccctacg ccgagcgagc cgccgacaag taccacggtg tcgccaagtt tgatccggcg 120

accgggaagc agttcaagtc ccccgccaag acgctgtcct acaccaacta cttcgccgag 180

gcgctcatcg ccgaggcggg ccaggacagc aagatcgtgg ccatccacgc ggccatgggc 240

ggcggcacgg ggctcaacta cttcctccgc cgcttcccga accggtgctt cgacgtcggg 300

atcgcggaca gcacgccgtc acgttcgggc cggctggctg 340

<210> 445
<211> 245
<212> DNA
<213> Zea mays

<400> 445

gtaccacggt gtcgccaagt ttgatccggc gaccgggaag cagttcaagt cccccgccaa 60

gacgctgtcc tacaccaact acttcgccga ggcgctcatc gccgaggcgg agcaggacag 120

caagatcgtg gccatccacg cggccatggg cggcggcacg gggctcaact acttcctccg 180

ccgcttcccg agccggtgct tcgacgtcgg gatcgcggag cagcacgccg tcacgttcgc 240

ggccg 245

<210> 446
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 446

cgatctgcag aagctaccgg taaggttcgt catggacagg gccgggctgg tcggcgcgga 60

cgggccgacc cactgcgggg cgttcgacgt cgcgtacatg gcctgcctgc ccaacatggt 120

cgtcatggcc ccgtccgacg aggccgagct ctgccacatg gtcgccaccg ccgcggcaat 180

cgacgaccgc ccgtcctgct tccgctaccc gagaggcaac ggcgttggcg tcccgttgcc 240

gnccaactac aaaggcactc ccctcgaggt cgggcaaagc aggatcctgc tggagggc 298

<210> 447
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 447

cagggccggg ctggtcggcg cggacgggcc gacccactgc ggggcgttcg acgtcgcgtg 60

catggcctgc ctgcccaaca tggtcgtcat ggccccgtcc gacgaggccg agctctgcca 120

catggtcgcc accgccgcgg caatcgacga ccgcccgtcc tgcttccgct acccgagagg 180

caacggcgtt ggcgtcccgt tgccgcccaa ctacaaaggc actcccctcg aggtcggcaa 240

aggcaggatc ctgctggagg gcgacaccgg ggngctgctg gngtacgggt cgggagtgca 300

gnactggctg accgtcgcgt acctggtgca gcg 333

<210> 448
<211> 240
<212> DNA
<213> Glycine max

<400> 448

caacaagcag gtttctttac caactgctac tcttgatgga cccataccac ctgtaggagc 60

cttgagtagc gctctcagta gattacaatc aaataggcct cttagagaat tgagagaggt 120

tgccaaggga gttcctaaac gaattggagg tcctatgcat gaattggctg caaaagttga 180

cgagtatgct cgtggcatga tcagtggttc tggatcatca ctttttgaag agcttggact 240

<210> 449
<211> 309
<212> DNA
<213> Glycine max

<400> 449

aatgcagggt accttgactc taacatgata attatactta atgacaacaa gcaagtttct 60

ttgcctactg ctactattga tggtcctgca actccaattg gagcccgcaa tagtgcctta 120

agcaaaattc aagcaagcac caaataccgc aaactgagag aagctgcgaa aggcatcaca 180

aagcagatag gaggaacaac acacaacttg cagcaaaggt agatgagtat gcaagaggta 240

tgatcagtgg ttctagtact acacttgttg aggagctcgg cttatactac atatgccctg 300

tggatggtc 309

<210> 450
<211> 233
<212> DNA
<213> Glycine max

<400> 450

aaaacaactg gtcctgtgct gctccatgtt gtcactgaaa aaggccatgg atatccatat 60

gcagaaagag cagcagatta gtaccatgga gttactaagt ttgatccatt aactggaaaa 120

caattcaaat tcaatgctgc cacccagtta tacacaacat actttgcaga ggctttaatt 180

tctgaagcgg aagcttacaa agacattgtc ggaatccatg ctgcaatggg agg 233

<210> 451
<211> 268
<212> DNA
<213> Glycine max

<400> 451

tgtgattctg tatgatagcc gtcactcttt acttccaaaa attgaggagg gcccaaagac 60

atttgtcaat gccctatcta gtaccctgag caagctccag tccagtaaat ctttccggag 120

atttagagaa gctgctaggg gtgttacgaa acgaattggt aggtctgcat gaattggcag 180

ctaaagtgga tgaatatgct cgtggtatga tgggtcctct aggtgctact ctttttgaag 240

agcttgggtt gtactacata ggcccagt 268

<210> 452
<211> 162
<212> DNA
<213> Glycine max

<400> 452

cttccttgtt ggaacatcat ggcttgcgcg caacagtggc tgatgcacgt ttctgcaagc 60

cattggaccg ttctcttatt cttagccttg cccaatcgca cgaggttttg atcactgtgg 120

aagaagggca ataggaggat tcggatctca tgttgttcag tt 162

<210> 453
<211> 232
<212> DNA
<213> Glycine max

<400> 453

gatctctccg ctctctcatc ataccgcact ctcgggtagt tacttcctct tccctctcac 60

tctcaatggg gtctccattt cctcgcccac gctcaccgcc tccaccagat gaagaaaagg 120

ccatgtgggg tatatgcatc cctctccgag agtggagagt attattccca ccgaccgcca 180

actcccctac tagacaccgt caactatcct attcatatga agaatctctc tg 232

<210> 454
<211> 280

<212> DNA
<213> Zea mays

<400> 454

gtgcaccgac caagaaaacc tcgcttcacg atctctacga gctccagggc ctctccccgt 60

ggtatgacaa cctctgccga cctgtcaccg acttgctgcc ccttatcgcc agctgtgttc 120

gtggagtcac cagcaaccct gcagtaatcc tccgtttcca ccttttgttt cttcgcttgc 180

atggttgctg cgcattcact cctgaccgtg tcctcgacgc aatgcagatt ttccagaagg 240

ccatctcatc ctccagcgca tatgatgatc agttcaagca 280

<210> 455
<211> 274
<212> DNA
<213> Zea mays

<400> 455

tgacactcaa ggaactgttg aggaggcaaa gtggttacac aaagtggtca accgccccaa 60

tgtctacata aagatccctg ctaccgcaga atgtgttcat tccatccgtg aagttatcgc 120

taatggcatt agcgtcaacg tcacgcttat attctctatt gcgagatacg aggctgtgat 180

tgatgcttac cttgatgggc tagaggcttc tggcttgagc gacttatctc gagttaccag 240

tgtcgcatcc ttctttgtca gtcgagtcga cacc 274

<210> 456
<211> 306
<212> DNA
<213> Zea mays

<400> 456

ccaacgagca aacccccccat ttgccaccaa ccccgacgag cggcgatgac cggcacgtgt 60

ctaagctggc ggcgccccgt ccggcggcac cgccgctccg gccggcgtcc ctccgcaccg 120

ccgccctcgc cttcgccccc tccgcgcgcc gggtccgcgt ctccgtcgcc gggcgagcca 180

ggagccccat cattgcgatg gcttcggcca aggaaggaaa tggtgcaccg accaagagga 240

ctgcgcttca tgatctctac gagctccagg gcctgtcccc gtggtacgac aacctatgcc 300

gccctg 306

<210> 457
<211> 330
<212> DNA
<213> Zea mays

<400> 457

ccaaggtggg aggcgttggc caagaaaggt gccaagaaac aaaggttgtt gtgggcatcc 60

accggtgtca agaacccagc ttatcctgac actctttatg tggacagtct catcggacct 120

gacacggtca acacgatgcc cgaccaagct ttgcaagcat tcatagacca cggcaccgtt 180

tcaaggacag ttgatgcgaa cgtgtctgag gcggaaggtg tatacagtgc cttggagaag 240

cttggcatcg actgggaaga ggttggaaag cagcttgagc tggaaggcgt ggactccttc 300

aagaagagct ttgacagcct actcgtgagc 330

<210> 458
<211> 317
<212> DNA
<213> Zea mays

<400> 458

gaaattctct ggcccgaggt gggaggcgtt ggccaagaaa ggtgccaaga aacagaggtt 60

gttgtgggca tccaccggtg tcaagaaccc agcttatccc gacactcttt acatcgacag 120

tctcattgga cctgacacgg tcaacacgat gcccgaccaa gctttgcacg cattcataga 180

ccacggcact gtctcgagga cagttgatgc gaatgtgtcc gaggcggaag gtgtatacag 240

cgccttggag aagcttggca ttgactgggg cgaggtcgga aagcagcttg agctggaagg 300

tgtggactcc ttcaaga 317

<210> 459
<211> 306
<212> DNA
<213> Zea mays

<400> 459

cgggaggcgt tggccaagaa aggtgccaag aaacaaaggt tgttgtgggc atccaccggt 60

gtcaagaacc cagcttatcc tgacactctt tatgtggaca gtctcatcgg acctgacacg 120

gtcaacacga tgcccgacca agctttgcaa gcattcatag accacggcac cgtttcaagg 180

acagttgatg cgaatgtgtc tgaggcggaa ggtgtataca gcgccttgga gaagcttggc 240

atcgactggg aagaggttgg aaagcagctt gagctggaga gcgtggactc cttcaagaag 300

agcttt 306

<210> 460
<211> 299
<212> DNA
<213> Zea mays

<400> 460

cttgagcgac ttatctcgag ttaccagtgt cgcatccttc tttgtcagtc gagtcgacac 60

ccttatcgac aaaatgcttg agaagattgg aacacctgag gcacttgcct tgagagggaa 120

ggctgccgtc gcacaggcca aactagcaaa tcggctctac cagaagaaat tctctggccc 180

gaagtgggag gcgttggcca agaaaggtgc caagaaacag aggttgttgt gggcgtccac 240

cggtgtcaag aacccagctt atcccgacac tctttacatc gacagtctca ttggacctg 299

<210> 461
<211> 282
<212> DNA
<213> Zea mays

<400> 461

agcaaatcgg ctctaccaga agaaattctc tggcccaagg tgggaggcgt tggccaagaa 60

aggtgccaag aaacaaaggt tgttgtgggc atccaccggt gtcaagaacc cagcttatcc 120

tgacactctt tatgtggaca gtctcatcgg acctgacacg gtcaacacga tgcccgacca 180

agctttgcaa gcattcatag accacggcac cgtttcaagg acagttgatg cgaacgtgtc 240

tgaggcggaa ggtgtataca gtgccttgga gaagcttggc at 282

<210> 462
<211> 295
<212> DNA
<213> Zea mays

<400> 462

gcgacttatc tcgagttacc agtgtcgcat ccttctttgt cagccgagtc gacaccctta 60

tcgacaaaat gcttgagaag attggaacac ctgaggcact tgccttgaga gggaaggctg 120

ccgtcgcaca ggccaaacta gcaaatcggc tctaccagaa gaaattctct ggcccgaggt 180

gggaggcgtt ggccaagaaa ggtgccaaga aacagaggtt gttgtgggca tccaccggtg 240

tcaagaaccc agcttatccc gacactcttt acatcgacag tctcattgga cctga 295

<210> 463
<211> 313
<212> DNA
<213> Zea mays

<400> 463

tgaatgtgtt ccttccatcc aggaagttat cgctaatggc attagcgtca acgtcacgct 60

tattttctca attgcgagat atgaggctgt gattgatgct tacctcgatg ggctagaggc 120

ttctggactt gagtgactta tcccgagtta ctagcgttgc atccttcttt gtcagccgag 180

tggacaccct tattgacaaa atgcttgaca agattggaac acctgaggcc cttgccttga 240

gaggaaaggc tgcagtagcg caggccaaac tagcaaatcg gctctaccag aagaaattct 300

ctggcccaag gtg 313

<210> 464
<211> 275
<212> DNA
<213> Zea mays

<400> 464

gaacacctga ggcccttgcc ttgagaggaa aggctgcagt agcacaggcc aaactagcaa 60

atcggctcta ccagaagaaa ttctctggcc caaggtggga ggcgttggcc aagaaaggtg 120

ccaagaaaca aaggttgttg tgggcatcca ccggtgtcaa gaacccagct tatcctgaca 180

ctctttatgt ggacagtctc atcggacctg acacggtcaa cacgatgccc gaccaagctt 240

tgcaagcatt catagaccac ggcaccgttt caagg 275

<210> 465
<211> 286
<212> DNA
<213> Zea mays

<400> 465

cccacgcgtc cgcccacgcg tccggtgatt gatgcttacc ttgatgggct agaggcttct 60

ggcttgagcg acttatctcg agttaccagt gtcgcatcct tctttgtcag ccgagtcgac 120

acccttatcg acaaaatgct tgagaagatt ggaacacctg aggcacttgc cttgagaggg 180

aaggctgccg tcgcacaggc caaactagca aatcggctct accagaagaa attctctggc 240

ccgaggtggg aggcgttggc caagaaaggt gccaagaaac agaggt 286

<210> 466
<211> 284
<212> DNA
<213> Zea mays

<400> 466

ctcaaggaac tgttgaagcg gcaaagtggt tacacaaagt ggtcaaccgc cccaatgtct 60

acataaagat cccagctact gcagaatgtg ttccttccat ccaggaagtt atcgctaatg 120

gcattagcgt caacgtcacg cttatttttct caattgcgag atatgaggct gtgattgatg 180

cttacctcga tgggctagag gcttctggct tgagtgactt atcccgagtt actagcgttg 240

catccttctt tgtcagccga gtggacaccc ttattgacaa aatg 284

<210> 467
<211> 277
<212> DNA
<213> Zea mays

<400> 467

aaccgcccca atgtctacat aaagatccct gctaccgccg aatgtgttcc ttccatccgg 60

gaagttatcg ctaatggcat tagcgtcaac gtcacgctta ttttctctat tgcgagatac 120

gaggctgtga ttgatgctta ccttgatggg ctagaggctt ctggcttgag cgacttatct 180

cgagttacca gtgtcgcatc cttctttgtc agccgagtcg acacccttat cgacaaaatg 240

cttgagaaga ttggaacacc tgaggcactt gccttga 277

<210> 468
<211> 279
<212> DNA
<213> Zea mays

<400> 468

ttttgagcct atctacgatg agaccgatgg ggctgatggg tatgtctccg tggaggtgtc 60

tcctaggttg gcaaatgaca ctcaaggaac tgttgaggcc gcaaagtggt tacacaaagt 120

ggtcaaccgc cccaatgtct acataaagat ccctgctacc gccgaatgtg ttccttccat 180

ccgggaagtt atcgctaatg gcattagcgt caacgtcacg cttatttttct ctattgcgag 240

atacgaggct gtgattgatg cttaccttga tgggctaga 279

<210> 469
<211> 334
<212> DNA
<213> Zea mays

<400> 469

cggacgcgtg ggtccagcgc atatgatgat cagttcaagc agctcatttc ggctggaaag 60

gacgcggaga gcgcttactg ggaactcgtt ataaaggata tccaagatgc gtgcaaactt 120

tttgagccca tctacgatga gactgatggg gctgatgggt atgtctccgt agaggtgtct 180

cctaggttgg caaatgacac tcaaggaact gttgaagcgg caaagtggtt acacaaagtg 240

gtcaaccgcc ccaatgtcta cataaagatc ccagctactg cagaatgtgt tccttccatc 300

caggaagtta tcgctaatgg cattagcgtc aacg 334

<210> 470
<211> 322
<212> DNA
<213> Zea mays

<400> 470

tagcagctca tttcggcagg aaaggatgcg gagagcgctt actgggaact cgttataaag 60

gatatccaag atgcgtgcaa acttttttgag cccatctacg acgagactga tggggctgat 120

gggtatgtct ccgtagaggt gtctcctagg ttggcaaatg acactcaagg aactgttgaa 180

gcggcaaagt ggttacacaa agtggtcaac cgccccaatg tctacataaa gatcccagct 240

actgcagaat gtgttccttc catccaggaa gttatcgcta atggcattag cgtcaacgtc 300

acgcttattt tctcaattgc ga 322

<210> 471
<211> 283
<212> DNA
<213> Zea mays

<400> 471

gttgttgtgg gcatccaccg gtgtcaagaa cccagcttat cccgacactc tttacatcga 60

cagtctcatt ggacctgaca cggtcaacac gatgcccgac caagctttgc acgcattcat 120

agaccacggc actgtctcga ggacagttga tgcgaatgtg tccgaggcgg aaggtgtata 180

cagcgccttg gagaagcttg gcattgactg gggcgaggtc ggaaagcagc ttgagctgga 240

aggtgtggac tccttcaaga agagctttga cagcctactc gtg 283

<210> 472
<211> 265
<212> DNA
<213> Zea mays

<400> 472

gccttatcga caaaatgctt gagaagattg gaacacctga ggcacttgcc ttgagaggga 60

aggctgccgt cgcacaggcc aaactagcaa atcggctcta ccagaagaaa ttctctggcc 120

cgaggtggga ggcgttggcc aagaaaggtg ccaagaaaca gaggttgttg tgggcatcca 180

ccggtgtcaa gaacccagct tatcccgaca ctctttacat cgacagtctc attggacctg 240

acacggtcaa cacgatgccc gacca 265

<210> 473
<211> 240
<212> DNA
<213> Zea mays

<400> 473

caagattgga acacctgagg cccttgcctt gagaggaaag gctgcagtag cacaggccaa 60

actagcaaat cggctctacc agaagaaatt ctctggccca aggtgggagg cgttggccaa 120

gaaaggtgcc aagaaacaaa ggttgttgtg ggcatccacc ggtgtcagga acccagctta 180

tcctgacact ctttatgtgg acagtctcat cggacctgac acggtcaaca cgatgcccga 240

<210> 474
<211> 301
<212> DNA
<213> Zea mays

<400> 474

ccgacaaggt ccgggacgcg tggctgggaa ctcgttataa aggatatcca agatgcgtgc 60

aaacttttttg agcccatata cgatgagact gatagggctg atgggtatgt ctccgtagag 120

gtgtctccta ggttggcaaa tgacactcaa ggaactgttg aagcggcaaa gtggttacac 180

aaagtggtca accgccccaa tgtctacata aagatcccag ctactgcaga atgtgttcct 240

tccatccagg aagttatcgc taatggcatt agcgtcaacg tcacgcttat tttctcaatt 300

g 301

<210> 475
<211> 300
<212> DNA
<213> Zea mays

<400> 475

agaggcttct ggcttgagcg acttatctcg agttaccagt gtcgcatcct tctttgtcag 60

ccgagtcgac acccttatcg acaaaatgct tgagaagatt ggaacacctg aggcacttgc 120

cttgagaggg aaggctgccg tcgcacaggc caaactagca aatcggctct accagaagaa 180

attctctggc ccgaggtggg aggcgttggc caagaaaggt gccaagaaac agaggttgtt 240

gtgggcatcc accggtgtca agaacccagc ttatcccgac actctttaca tcgacagtct 300

<210> 476
<211> 267
<212> DNA
<213> Zea mays

<400> 476

ggcaaatgac actcaaggaa ctgttgaagc ggcaaagtgg ttacacaaag tggtcaaccg 60

ccccaatgtc tacataaaga tcccagctac tgcagaatgt gttccttcca tccaggaagt 120

tatcgctaat ggcattagcg tcaacgtcac gcttattttc tcaattgcaa gatatgaggc 180

tgtgattgat gcttacctcg atgggctaga ggcttctggc ttgagtgact tatcccgagt 240

tactagcgtt gcatccttct ttgtcag 267

<210> 477
<211> 293
<212> DNA
<213> Zea mays

<400> 477

cccacgcgtc cgcccacgcg tccgggaact cgttataaag gatatccaag atgcgtgcaa 60

acttttgag cccatctacg acgagactga tggggctgat gggtatgtct ccgtagaggt 120

gtctcctagg ttggcaaatg acactcaagg aactgttgaa gcggcaaagt ggttacacaa 180

agtggtcaac cgccccaatg tctacataaa gatcccagct actgcagaat gtgttccttc 240

catccaggaa gttatcgcta atggcattag cgtcaacgtc acgcttttct caa 293

<210> 478
<211> 257
<212> DNA
<213> Zea mays

<400> 478

gcgttggcca agaaaggtgc caagaaacag aggttgttgt gggcatccac cggtgtcaag 60

aacccagctt atcgcgacac tctttacatc gacagtctca ttggacctga cacggtcaac 120

acgatgcccg accaagcttt gcacgcattc atagaccacg gcactgtctc gaggacagtt 180

gatgcgaatg tgtccgaggc ggaaggtgta tacagcgcct tggagaagct tggcattgac 240

tggggcgagg tcggaaa 257

<210> 479
<211> 229
<212> DNA
<213> Zea mays

<400> 479

cccttatcga caaaatgctt gagaagattg gaacacctga ggcacttgcc ttgagaggga 60

aggctgccgt cgcacaggcc aaactagcaa atcggctcta ccagaagaaa ttctctggcc 120

cgaggtggga ggcgttggcc aagaaaggtg ccaagaaaca gaggttgttg tgggcgtcca 180

ccggtgtcaa gaacccagct tatcccgaca ctctttacat cgacagtct 229

<210> 480
<211> 263
<212> DNA
<213> Zea mays

<400> 480

atggggctga tgggtatgtc tccgtagagg tgtctcctag gttggcaaat gacactcaag 60

gaactgttga agcggcaaag tggttacaca aagtggtcaa ccgccccaat gtctacataa 120

agatcccagc tactgcagaa tgtgttcctt ccatccagga agttatcgct aatggcatta 180

gcgtcaacgt cacgcttatt ttctcaattg caagatatga ggctgtgatt gatgcttacc 240

tcgatgggct agaggcttct ggc 263

<210> 481
<211> 300
<212> DNA
<213> Zea mays

<400> 481

gccaaggaag gaagcggtgc accgaccaag aggactgcgc ttcatgatct ctacgagctc 60

cagggcctgt ccccgtggta cgacaaccta tgccgccctg tcacagactt gctgcccatt 120

atcgccagcg ggtccgtgga gtcaccagca acccaacgat tttccaaaag gccatttcat 180

cgtccagcgc atatgatgat cagttcaagc agctcatttc ggcaggaaag gatgcggaga 240

gcgcttactg ggaactcgtt ataaaggata tccaagatgc gtgcaaactt tttgagccca 300

<210> 482
<211> 312
<212> DNA
<213> Zea mays

<400> 482

tccaaccaag ggttcggaaa gtcaaggcta atttccccaa tgtgggaaac cgaggctggg 60

attgaggcta accttaatgg gcaaaaggct tctggcttga gcgacttatc tcgagttacc 120

agtgtcgcat ccttctttgt cagtcgagtc gacaccctta tcgacaaaat gcttgagaag 180

attggaacac ctgaggcact tgccttgaga gggaaggctg ccgtcgcaca ggccaaacta 240

gcaaatcggc tctaccagaa gaaattctct ggcccgaggt gggaggcgtt ggccaagaaa 300

ggtgccaaga aa 312

<210> 483
<211> 264
<212> DNA
<213> Zea mays

<400> 483

gcaacccaac gattttccaa aaggccattt catcgtccag cgcatatgat gatcagttca 60

agcagctcat ttcggcagga aaggatgcgg agagcgctta ctgggaactc gttataaagg 120

atatccaaga tgcgtgcaaa ctttttgagc ccatctacga cgagactgat ggggctgatg 180

ggtatgtctc cgtagaggtg tctcctaggt tggcaaatga cactcaagga actgttgaag 240

cggcaaagtg gttacacaaa gtgg 264

<210> 484
<211> 232
<212> DNA
<213> Zea mays

<400> 484

ggtcaacacg atgcccgacc aagctttgca ggcattcata gaccacggca ctgtttcgag 60

gacagttgat gcgaatgtgt ccgaggcgga aggtgtatac agcgccttgg agaagcttgg 120

cattgactgg ggcgaggtcg gaaagcagct tgagctggaa ggtgtggact ccttcaagaa 180

gagctttgac agcctactcg tgagcctgca ggagaagggc aactagcctc aa 232

<210> 485
<211> 258
<212> DNA
<213> Zea mays

<400> 485

caaacttttt gagcccatct acgacgagac tgatggggct gatgggtatg tctccgtaga 60

ggtgtctcct aggttggcaa atgacactca aggaactgtt gaagcggcaa agtggttaca 120

caaagtggtc aaccgcccca atgtctacat aaagatccca gctactgcag aatgtgttcc 180

ttccatccag gaagttatcg ctaatggcat tagcgtcaac gtcacgctta ttttctcaat 240

tgcgagatat gaggctgt 258

<210> 486
<211> 328
<212> DNA
<213> Zea mays

<400> 486

aaagtggtta cacaaagtgg tcaaccgccc caatgtctac ataaagatcc ctgctaccgc 60

cgaatgtgtt cattccatcc gtgaagttat cgctaatggc attagcgtca acgtcacgct 120

tattttctct attgcgagat acgaggctgt gattgatgct taccttgatg ggctagaggc 180

ttctggcttg agcgacttat ctcgagttac cagtgtcgca tccttctttg tcagtcgagt 240

cgacaccctt atcgacaaaa tgttgagaag atggaacacc tgaggcattg ccttgagagg 300

gaaggtgccg tcgcacagcc aactagca 328

<210> 487
<211> 274
<212> DNA
<213> Zea mays

<400> 487

cccacgcgtc cggtcaccga cttgctgccc cttatcgcca gcggtgttcg tggagtcacc 60

agcaaccctg caattttcca gaaggccatc tcatcctcca gcgcatatga tgatcagttc 120

aagcagctca tttcgggcgg aaaggacgcg gagagcgctt actgggaact tgttataaag 180

gatatccaag acgcgtgcag tctttttgag cctatctacg atgagaccga tggggctgat 240

gggtatgtct ccgtggaggt gtctcctagg ttgg 274

<210> 488
<211> 213
<212> DNA
<213> Zea mays

<400> 488

cggacggtgg gcgacaaaat gcttgagaag attggaacac ctgaggcact tgccttgaga 60

gggaaggctg agcgtcgcac aggccaaact agcaaatcgg ctctaccaga agaaattctc 120

tggcccgagg tgggaggcgt tggccaagaa aggtgccaag aaacagaggt tgttgtgggc 180

gtccaccggt gtcaagaacc cagcttatcc cga 213

<210> 489
<211> 262
<212> DNA
<213> Zea mays

<400> 489

tttcatcgtc cagcgcatat gatgatcagt tcaagcagct catttcggct ggaaaggacg 60

cggagagcgc ttactgggaa ctcgttataa aggatatcca agatgcgtgc aaacttttg 120

agcccatcta cgatgagact gatggggctg atgggtatgt ctccgtagag gtgtctccta 180

ggttggcaaa tgacactcaa ggaactgttg aagcggcaaa gtggttacac aaagtggtca 240

accgccccaa tgtctacata aa 262

<210> 490
<211> 252
<212> DNA
<213> Zea mays

<400> 490

cgatggggct gatgggtatg tctccgtgga ggtgtctcct aggttggcaa atgacactca 60

aggaactgtt gaggcggcaa agtggttaca caaagtggtc aaccgcccca atgtctacat 120

aaagatccct gctaccgccg aatgtgttcc ttccatccgg gaagttatcg ctaatggcat 180

tagcgtcaac gtcacgctta ttttctctat tgcgacatac gaggctgtga ttgatgctta 240

ccttgatggg ct 252

<210> 491
<211> 239
<212> DNA
<213> Zea mays

<400> 491

cagcaaccca acgattttcc aaaaggccat ttcatcgtcc agcgcatatg atgatcagtt 60

caagcagctc atttcggctg gaaaggacgc ggagagcgct tactgggaac tcgttataaa 120

ggatatccaa gatgcgtgca aacttttga gcccatctac gatgagactg atggggctga 180

tgggtatgtc tccgtagagg tgtctcctag gttggcaaat gacactcaag gaactgttg 239

<210> 492
<211> 196
<212> DNA
<213> Zea mays

<400> 492

gaaaggtgcc aagaaacaaa ggttgttgtg ggcatccacc ggtgtcaaga acccagctta 60

tcctgacact ctttatgtgg acagtctcat cggacctgac acggtcaaca cgatgcccga 120

ccaagctttg caagcattca tagaccacgg caccgtttca aggacagttg atgcgaacgt 180

gtctgaggcg gaaggt 196

<210> 493
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 493

atctctacga gctccagggc ctgtcaccgt ggtacgacaa cctatgccgc cctgtcacag 60

acttgctgcc cattatcgcc agcgaggtcc gtggagtcac cagcaatcca acgattttcc 120

anaaggccat ttcatcgtcc agcgcatatg atgatcagtt caagcagctc atttcggctg 180

gaaaggacgc ggagagcgct tactgggaac tcgttataaa ggatatccaa gatgcgtgca 240

aacttttga gcccatctac gatgagactg atggggctga tgggtatgtc tccgtagagg 300

tgtctcctag gttggcaaat gacactcaag gaactgttga agcggcatag tggtt 355

<210> 494
<211> 270
<212> DNA
<213> Zea mays

<400> 494

gactagttct agatcgccag cggcgtccgt ggagtcacca gcaacccaac gattttccaa 60

aaggccattt catcgtccag cgcatatgat gatcagttca agcagctcat ttcggcagga 120

aaggatgcgg agagcgctta ctgggaactc gttataaagg atatccaaga tgcgtgcaaa 180

ctttttgagc ccatctacga cgagactgat ggggctgatg ggtatgtctc cgtagaggtg 240

tctcctaggt tggcaaatga cactcaagga 270

<210> 495
<211> 226
<212> DNA
<213> Zea mays

<400> 495

gacgcggaga gcgcttactg ggaactcgtt ataaaggata tccaagatgc gtgcaaactt 60

tttgagccca tctacgatga gactgatggg gctgatgggt atgtctccgt agaggtgtct 120

cctaggttgg caaatgacac tcaaggaact gttgaagcgg caaagtggtt acacaaagtg 180

gtcaaccgcc ccaatgtcta cataaagatc ccagctactg cagaat 226

<210> 496
<211> 234
<212> DNA
<213> Zea mays

<400> 496

cccacgcgtc cgcccacgcg tccgggaaag gatgcggaga gcgcttactg ggaactcgtt 60

ataaaggata tccaagatgc gtgcaaactt tttgagccca tctacgacga gactgatggg 120

gctgatgggt atgtctccgt agaggtgtct cctaggttgg caaatgacac tcaaggaact 180

gttgaagcgg caaagtggtt acacaaagtg gtcaaccgcc ccaatgtcta cata 234

<210> 497
<211> 313
<212> DNA
<213> Zea mays

<400> 497

ccgagtccgc gtttccgtcg ccgggcgagc caggagcccc atcattgcga tggcttcggc 60

caaggaagga agcggtgcac cgaccaagag gactgcgctt catgatctct acgagctcca 120

gggcctgtcc ccgtggtacg acaacctatg ccgccctgtc acagacttgc tgcccattat 180

cgccagcggc gtccgtggag tcaccagcaa cccaacgatt ttccaaaagg ccatttcatc 240

gtccagcgca tatgatgatc agttcaagca gctcatttcg gcaggaaagg atgcggagag 300

cgcttactgg gaa 313

<210> 498
<211> 243
<212> DNA
<213> Zea mays

<400> 498

ggatatgcaa gatgcgtgca aacttttga gcccatctat gacgagactg atggggctga 60

tgggtatgtc tccgtagagg ggtctcctag gttggctaat gacactcaat gtactgttga 120

agctgcaaag tggttacaca aagttgtcaa ccgccccaat gtctacataa agatcccagc 180

tactgcagaa tgtgttcctt ccatccagga agttatccct aatggcatta gcgtcaacgt 240

cac 243

<210> 499
<211> 281
<212> DNA
<213> Zea mays

<400> 499

cacgcttatt ttctctattg cgacatacga ggctgtgatt gatgcttacc ttgatgggct 60

agaagcttcg ggcttgagcg acttatctcg agttaccagt gtcgcatcct tctttgtcag 120

ccgagtcgac acccttatcg acaaaatgct gaaaatattg gaacacctga ggcacttgcc 180

ttgagaggga aggctgccgt cgcacaggcc aaactagcaa atcggctcta ccagaagaaa 240

ttctctggcc caaggtggga ggcgttggcc aagaaaggtg c 281

<210> 500
<211> 320
<212> DNA
<213> Zea mays

<400> 500

gtctcgagga cagttccgtg gtctatgaat gcgtgcaaag cttggtcggg catcgtgttg 60

accacggcac tgtctcgagg acagttgatg cgaatgtgtc cgatgcggaa cgtgtataca 120

gcgccttgga gaatcttggc attgactggg gcgatgtcgg aaagcagctt gagctggaag 180

gtgtggactc cttcaagaag agctttgaca gcctactcgt gagcctacag gagaatggca 240

acagcctcaa gacggcaact gtgtaaaact gagaagattg ggtagcggcg ggtgaacgat 300

tttactatat aaaatgctag 320

<210> 501
<211> 318
<212> DNA
<213> Zea mays

<400> 501

tgttggccaa gcaagagtgc caacgaaaca gcacgttcgc tgtagcgcat cccttggtgt 60

ccagaaccca gcttgtcccg cgactaccta catcgacagt ctcattgggc ctgacacggt 120

caacacgatg cccgaccaag ctttgcacgc attcatagac cacggcactg tctcgaggac 180

agttgatgcg aatgtgtccg aggcggaagg tgtatacagc gccttggaga agcttggcat 240

tgactcgggc gaggtcggaa agcagcttga gctggaaggt gtggactctt caagcagact 300

ttgacagcct actcgtga 318

<210> 502
<211> 283
<212> DNA
<213> Zea mays

<400> 502

cagacgcgtg gggtccgcgt ctccgtcgcc gggcgagcca ggagccccat cattgcgatg 60

gcttcggcca aggacggaaa tggtgcaccg accaagagga ctgcgcttca tgatctctac 120

gagctccagg gcctgtcccc gtggtacgac aacctatgcc gccctgtcac agacttgctg 180

cccattatcg ccagcggcgt ccgtggagtc accagcaacc caacgatttt ccaaaaggcc 240

atttcatcgt ccagcgcata tgatgatcag ttcaagcagc tca 283

<210> 503
<211> 275
<212> DNA
<213> Zea mays

<400> 503

atctcatcct ccagcgcata tgatggttat ctggaccatt gcagggttgc tggtgactcc 60

acgaacaccg ctattttcca gaaggtcatc tcatcctcca gcgcatatga tgatcagttc 120

aagcagctca tttcgggcgg aaatgacgcg gagagtgctt actgcgaact tgttatacag 180

gatatccaag acgcgtgcag tctttttgag cctatctacg atgagaccga tggggctgat 240

gggtatgtct ccgtggaggt gtctcctagg ttggc 275

<210> 504
<211> 184
<212> DNA
<213> Zea mays

<400> 504

accagcaacc ctacaatttt ccagaaggcc atctcatcct ccagcgcata tgatgatcag 60

ttcaagcagc tcatttcggg cggaaaggac gcggagagcg cttactggga actcgttata 120

aaggatatcc aagacgcgtg cagtcttttt gagcctatct acgatgagac cgatggggct 180

gatg 184

<210> 505
<211> 262
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 505

cccacgcgtc cgatgtgtct gaggcggaag gtgtatacag cgccttggag aagcttggca 60

tcgactggga agaggttgga aagcagcttg agctggaagg cgtggactcc ttcaagaaga 120

gctttgacag cctactcgtg agcctgcagg agaagggcaa cagcctcaag atggcgagtg 180

tgtaaagctg agaagattgg gtacctgcga gtgaacgatt ttactanata naatgctagc 240

ttgctggctc tcctcttagt tt 262

<210> 506
<211> 291
<212> DNA
<213> Zea mays

<400> 506

cggctcgagg tttcaaggac agttgatgcg aacgtgtctg aggcggaagg tgtatacagt 60

gccttggaga agcttggcat cgactgggaa gaggttggaa agcagcttga gctggaaggc 120

gtggactcct tcaagaagag ctttgacagc ctactcgtga gcctgcagga gaagggcaac 180

agcctcaaga tggcgagtgt gtaaagctga gaagattggg tacctgcgag tgaacgattt 240

tactaaataa aatgctagct tgctggctct cctcttagtt tttacgctgt a 291

<210> 507
<211> 244
<212> DNA
<213> Zea mays

<400> 507

aaggcggaag gtgtatacag cgccttggag aagcttggca ttgactgggc cgaggtcgga 60

aagcagcttg agctggaagg tgtggactcc ttcaagaaga gctttgacag cctactcgtg 120

agcctgcagg agaagggcaa cagcctcaag acggcaactg tgtaaaactg agaagattgg 180

gtaccggcgg gtgaacgatt ttactaaata aaatgctagc ttgctggctc tcctaatttt 240

tacg 244

<210> 508
<211> 298
<212> DNA
<213> Zea mays

<400> 508

tgcgaacgtg tctgaggcgg aaggtgtata cagtgccttg gagaagcttg gcatcgactg 60

ggaagaggtt ggaaagcagc ttgagctgga aggcgtggac tccttcaaga agagctttga 120

cagcctactc gtgagcctgc aggagaaggg caacagcctc aagatggcga gtgtgtcaag 180

ctgagaagat tgggtacctg cgagtgaacg attttactaa ataaaatgct agcttgctag 240

ctctcctctt agtttttacg ctgtaccttt gctctcaatt ttctgagtcg gctttgta 298

<210> 509
<211> 241
<212> DNA
<213> Zea mays

<400> 509

gcagaatgtg ttccttccat ccaggaagtt atcgctaatg gcattagcgt caacgtcacg 60

cttattttct caattgcaag atatgaggct gtgattgatg cttacctcga tgggctagag 120

gcttctggct tgagtgaatt atcccgagtt actagcgttg catccttctt tgtcagccga 180

gtggacaccc ttattgacaa aatgcttgac aagattggaa cacctgaggc ccttgccttg 240

a 241

<210> 510
<211> 139
<212> DNA
<213> Zea mays

<400> 510

caagacgcgt gcagtctttt tgagcctatc tacgatgaga ccgatggggc tgatgggtat 60

gtctccgtgg aggtgtctcc taggttggca aatgacactc aaggaactgt tgaggccgca 120

aagtggttac acaaagtgg 139

<210> 511
<211> 170
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 511

cggcactgtc tcgaggacag ttgatgcgaa tgtgcccgac gcggaaggtg tatacagcgc 60

cttggagaag cttggcattg actgggccga ggtcggaaag cagcttgagc tggaaggtgt 120

ggactccttc acagagagca ttgacangct actcgtgagc ctgcaggaga 170

<210> 512
<211> 169
<212> DNA
<213> Zea mays

<400> 512

ctcgatgggc tagaggcttc tggcttgagt gacttatccc gagttactag cgttgcatcc 60

ttctttgtca gccgagtgga cacccttatt gacaaaatgc ttgacaagat tggaacacct 120

gaggcccttg ccttgagagg aaaggctgca gtagcgcagg ccaaactag 169

<210> 513
<211> 259
<212> DNA
<213> Zea mays

<400> 513

gcgccttgga gaagcttggc attgactggg gcgaggtcgg aaagcagctt gagctggaag 60

gtgtggactc cttcaagaag acgcggtgac agcctactcg tgagcctaca ggagaagggc 120

aacagcctca agacggcaac tgtgtaaaac tgagaagatt gggtaccggc gggtgaacaa 180

cattactaaa taaaatgcta gcttgctggc tctcttagtt tttacgatgt acctttgctc 240

tccatttttct gaatcggga 259

<210> 514

<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 514

ggaaagcagc ttgagctgga aggcgtggac tccttcaaga agagctttga cagcctactc 60

gtgagcctgc aggagaaggg caacagcctc aagatggcga gtgtgtaaag ctgagaagat 120

tgggtacctg cgagtgaacg attttactaa atanaatgct agcttgctgg ctctcctctt 180

agtttttacg ctgtactttg ctctcaattt tctgag 216

<210> 515
<211> 291
<212> DNA
<213> Zea mays

<400> 515

catcgactgg gaagaggttg gaaagcagct tgagctggaa ggcgtggact ccttcaagaa 60

gagctttgac agcctactcg tgagcctgca ggagaagggc aacagcctca agatggcgag 120

tgtgtaaagc tgagaagatt gggtacctgc gagtgaacga ttttactaaa taaaatgcta 180

gcttgctggc tctcctctta gtttttacgc tgtacctttg ctctcaattt tctgagtcgg 240

ctttgtatcc cagcttgcca gaacgtcatg tgtagccatg ttcatggctg t 291

<210> 516
<211> 260
<212> DNA
<213> Zea mays

<400> 516

gcgtggactc cttcaagaag agctttgaca gcctactcgt gagcctgcag gagaagggca 60

acagcctcaa gatggcgagt gtgtaaagct gagaagattg ggtacctgcg agtgaacgat 120

tttactaaat aaaatgctag cttgctggct ctcctcttag tttttacgct gtacctttgc 180

tctcaatttt ctgaatcggc tttgtatccc aggcttgcca gaacgtcatt gtgtagccac 240

tgttcatggc ttgtaattgc 260

<210> 517
<211> 327

<212> DNA
<213> Zea mays

<400> 517

cgacggaaat agatgctcgg ttagcttatg acacccaggg cataatccac agggtacatg 60

aactgttgaa tctatacaac caacatgatg tctcaactga ccgcctgtta ttcaaaattc 120

ctgctacatg gcaaggcata gaggcctcaa ggttgcttga atctgaagga attcaaacgc 180

atctatcatt tgtttacagt ttcgcacaag cggcagcggc agcacaagct ggtgcatctg 240

tagtacaaat gtttgtgggc cgattgcggg actgggcagg catcactctg gtgacccaga 300

gatagatgaa gctttgaaga atggaga 327

<210> 518
<211> 203
<212> DNA
<213> Zea mays

<400> 518

cagggcataa tccacagggt acatgaactg ttgaatctat acaaccaaca tgatgtctca 60

actgaccgcc tgttattcaa aattcctgct acatggcaag gcatagaggc ctcaaggttg 120

cttgaatctg aaggaattca aacgcatcta acatttgttt acagtttcgc acaagcggca 180

gggtcagcac aagctggtgc atc 203

<210> 519
<211> 268
<212> DNA
<213> Zea mays

<400> 519

cctcaaggtt gcttgaatct gaaggaattc aaacgcatct aacatttgtt tacagtttcg 60

cacaagcgag cacggcagca caagctggtg catctgtagt acaaatgttt gtaggccgat 120

tgcgggactg ggcaaggcat cactctggtg acccagagat agatgaagct ttgaagaatg 180

gagaagatgc tgggctttct ttggcgaaga aagtatatgc ctatattcac aggaatgggt 240

acaaaacaaa gctgatggcc gctgccat 268

<210> 520
<211> 417

<212> DNA
<213> Zea mays

<400> 520

ggaacacctg aggcccttgc cttgagagga aaggctgcag tagcgcaggc cagactggca 60

aatcggctct ggcagaagaa attctctggc ccaaggtggg aggcgttggc caagaaaggt 120

gccaagaaac aaaggttgtt gtgggcatcc accggtgtca agaacccagc ttatcctgac 180

actctttatg tggacagtct catcggacct gacacggtca acacgatgcc cgaccaagct 240

ttgcaagcat tcatagacca cggcaccgtt tcaaggacag ttgatgcgaa tgtgtctgaa 300

gcggaaggtg tatacagcgc cttggagaag cttggcatcg actgggaaga ggttggaaag 360

cagcttgagc tggaaggcgt ggactccttc aagaagagct ttgacagcct actcgtg 417

<210> 521
<211> 424
<212> DNA
<213> Zea mays

<400> 521

aatcggctct accagaagaa attctctggc ccgaggtggg aggcgttggc caagaaaggt 60

gccatgaaac agaggttgtt gtgggcgttc accggtgtca agaacccagc ttatcccgac 120

actctttaca tcgactgtct cattggacct gacactgtca acacgatgcc cgaccaagct 180

ttgcaggcat tcatagacca cggcactgtt tcgaggacag ttgatgcgaa tgtgtacgag 240

gcggaaggtg tatacagcgc cttggacaat cttggcattg actggcgcga ggtcagaaag 300

cagcttgagc tggaaggtgt ggactccttc atgaagagct ttgacagcct actcgtgagc 360

ctgcaggaga tggtcaacat cctcaagacg gcatctgtgt aaaactgaga agattgtgta 420

ccgg 424

<210> 522
<211> 443
<212> DNA
<213> Zea mays

<400> 522

atttcggctg gaaaggacgc ggagagcgct tactgggaac tcgttataaa ggatatccag 60

gatgcgtgca aacttttga gcccatctac gatgagactg atggggctga tgggtatgtc 120

tccgtagagg tgtctcctag gttggcaaat gacactcaag gaactgttga agcggcaaag 180

tggttacaca aagtggtcaa ccgccccaat gtctacataa agatcccagc tactgcagaa 240

tgtgttcctt ccatccagga agttatcgct aatggcatta gcgtcaacgt cacgcttatt 300

ttctcaattg caagatatga ggctgtgatt gatgcttacc tcgatgggct agaggcttct 360

ggcttgagtg acttatcccg agttactagc gttgcatcct tctttgtcag ccgagtggac 420

acccttattg acaaaatgct tga 443

<210> 523
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 523

gccagcggcg tccgtggagt caccttctac ccaacgattt tccaaaaggc catttgagtc 60

gtccagcgca tatgatgagc agttcaagca gctcatttcg gcaggaaagg atgcggagag 120

cgcttactgg gaactcgtta taaaggatat ccaagatgcg tgcaaacttt ttgagcccat 180

ctacgacgag actgatgggg ctgatgggta tgtctccgta gaggtgtctc ctaggttggc 240

aaatgacact caaggaactg ttgaagcggc aaagtggtta cacaaagtgg tcaaccgccc 300

caatgtctac ataaagatcc agctactgc agaatgtgtt ccttccatcc aggaagttat 360

cgctaatggc attagcgtca acgtcacgct tatnntctca attgcgagat atgaggctgt 420

gattgatgct tacctcga 438

<210> 524
<211> 369
<212> DNA
<213> Zea mays

<400> 524

gcgagatacg aggctgtgat tgatgcttac cttgatgggc tagaggctgg tggcttgagc 60

gacttatctt gagttaccag cgtcgcatgc ttctttgtca gtcgagtcta cacccttatc 120

gacaaaatgc ttgagaagat tggaacacct gaggcacttg ccttgagagg gaaggctgcc 180

gacgtacagg ccaaactagc aaatcggctc taccagaaga aattctctgg cccgaggtgg 240

gaagcgtctg ccaagaaagg tgccaagaaa cagatgttgt tgcgggcgtt cacccgtgtc 300

aagaacccag cttatcccga cactctttac atcgacagtc ttattggacc tgacacggtc 360

aacacgatt 369

<210> 525
<211> 375
<212> DNA
<213> Zea mays

<400> 525

tgcttacctc gatgggctag aggcttctgg cttgagtgac ttatcccgag ttactagcgt 60

tgcgtccttc tttgtcagcc gagtggacac ccttattgac aaaatgcttg acaagattgg 120

aacacctgag gcccttgcct tgagaggaaa ggctgcagta gcacaggcca aactagcaaa 180

tcggctctac cagaagaaat tctctggccc aaggtgggag gcgttggcca agaaaggtgc 240

caagaaacaa aggttgttgt gggcatccac cggtgtcaag aacccagctt atcctgacac 300

tctggatgtg gacagtctca tctgacctga cacgttcaac acgatgcccg accaagcttt 360

gcaagcattt catag 375

<210> 526
<211> 389
<212> DNA
<213> Zea mays

<400> 526

cccacgcgtc cgctgcgctt catgatctct acgagctcca gggcctgtcc ccgtggtacg 60

agaacctatg ccgccctgtc acagacttgc tgcccattat cgccagcggc gtccgtggag 120

tcaccagcaa cccaacgatt ttccaaaagg ccatttcatc gtccagcgca tatgatgatc 180

agttcaagca gctcatttcg gcaggaaagg atgcggagag cgcttactgg gaactcgtta 240

taaaggatat ccaagatgcg tgcaaacttt ttgagcccat ctacgacgag actgatgggg 300

ctgatgggta tgtctccgta gaggtgtctc ctaggttggc aaatgacact caaggaactg 360

ttgaagcggc aaagtggtta cacaaagtg 389

<210> 527
<211> 379
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<400> 527

aatcggctct accagaagaa attctctggc ccgaggtggg aggcgttggc cgagaagggt 60

gccatgaaac agaggttgtt gtgggcgtcc accggtgtca agaacccagc ttatcccgac 120

actctctaca tcgacagcct cattggacct gacacggtca acactatgcc cgtacaagct 180

ttgcatgcat tcatagacca cggcactgtt tcgaggacag ttgatgctaa tgtgtacgag 240

gcggaaggtg tatacagcgc cttggagaag cttggcattg actgnggcga ggtcggaaag 300

caacttgagc tggaaggtgt ggactccttc aagaagagct ttgacagcct actcgtgagc 360

ctgcatgaga agggcaaca 379

<210> 528
<211> 185
<212> DNA
<213> Zea mays

<400> 528

aggcctgtcc ccgtggtacg acaacctatg ccgccctgtc acagacttgc tgcccattat 60

cgccagcggc gtccgtggag tcaccagcaa cccaacgatt ttccaaaagg ccatttcatc 120

gtccagcgca tatgatgatc agttcaagca gctcatttcg gcaggaaagg atgcggagag 180

cgcta 185

<210> 529
<211> 374
<212> DNA
<213> Zea mays

<400> 529

gaggtacgcg tacgcgaaca cgatgcccga ccaagctttt caagcattca tagaccactg 60

caccgtttca aggacagttg atgcgaatgt gtctgaggcg gaaggtgtat acagcgcctt 120

ggagaagctt ggcatcgact gggaacaggt tggaaagcag cttgagctgg aacgcgtgga 180

ctccttcaag aagagctttg acagcctact cgtgagcctg caggacaagg gcaacagtct 240

caagatggcg agtgtgtaaa gctgataaga ttgggtacct gccagtgaac gattttacta 300

aataaaatgc tagcttgctg gctcttctct tactatttac gctgtacctt tgctctcaat 360

tatctgaatc ggct 374

<210> 530
<211> 348
<212> DNA
<213> Zea mays

<400> 530

gtctcaactg accgcctgtt attcataatt cctgctacat ggcaaggcat agaggcctca 60

aggttgcttg aatctgaagg aattcaaacg catctaacat ttgtttacag tttcgcacta 120

aagcggcagc ggcagcacaa gctggtgcat ctgtagtaca aatgtttgtg ggccgattgc 180

gggactgggc aaggcatcac tctggtgacc cagagataga tgaagctttg aagaatggag 240

aagatgctgg gctttctttg gcgaagaaag tatatgccta tattcacagg aatgggtaca 300

aaacaaagct gatggccgct gccataccga acaagcagga cgtattta 348

<210> 531
<211> 525
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 531

gggggggtggg gttgactgtc atgttcgcgt ggcggtacaa agtcgaaatt gnccgggcca 60

cccacgcaac cgcatcgcga ccgccaaagc ccgcgacttt cagcctacgg aggccacatc 120

tggccgcgcg ggccgccgct ggcaacgcac ccacgtcccc ggtccgcgag gtcgtcactg 180

agctcgacgc ggtcgccggc ttcagcgaga tcgtgccgga caccgtcgtg ttcgatgatt 240

tcgagaggtt cgcacccacg gcggccacag tgagctcgtc gctgctgctt gggatcactg 300

ggctcccaga cactaagttc aagagtgcga tagatactgc actggcagat ggtgagtgca 360

acgcactgga gaaggctgat gacatgatgt cctgttacct caccaaggct cttgcatatg 420

ttggcgctga actggctcat caagtccctg ggagagtttc gacggaaata gatgctcggt 480

tagcttatga cacccagggc ataatccaca gggtacatga actgt 525

<210> 532
<211> 423
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<400> 532

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tcgcgctccc caccaacccc gacgagcggc gatgaccggc acggtgtcca agctggcggc 120

gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgccg caatcgcctt 180

cgccccctcc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga tcccctccgt 240

cattgcgatg gcttctgcca aggaaggaaa tggtgcaccg accaagaaaa cctcgcttca 300

cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc gacctgtcac 360

cgacttgctg ccccttatcg ccagcggtgt tcgtggagtc accagcaacc ctgcaattnt 420

cca 423

<210> 533
<211> 429
<212> DNA
<213> Zea mays

<400> 533

cggacgcgtg ggagcctcca aaacctcgca acaaccccgt gacacccaca cccatccgcg 60

ctgcccctcc tcgcgctccc caccaacccc gacgagcggc gatgaccggc acggtgtcca 120

agctggcggc gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgccg 180

caatcgcctt cgccccctcc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga 240

tcccctccgt cattgcgatg gcttctgcca aggaaggaaa tggtgcaccg accaagaaaa 300

cctcgcttca cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc 360

gacctgtcac cgacttgctt gcccttatcg gcagcggtgt tcgtggagtc accagcaacc 420

ctacaattt 429

<210> 534
<211> 283
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 534

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ctgattctga gtgttatgga cttgaaaatc ctaacgcgcg attgtcttgt tttgtcaaca 120

aggctttcgc gaatatcggt agtgacatgg caaagcttgt ccctggccgt gtttcgacag 180

aagtggatgc gcggcttgct tatgacacac atgccattat caggaaggtg catgacctgt 240

tgaagttgta catgatannt atgtacctcc gcaacgtctg ttg 283

<210> 535
<211> 250
<212> DNA
<213> Glycine max

<400> 535

agtggacact ctcattgaca aggcccttga gaaaattggc accccagatg ctcttaatct 60

acgtgggaag gtaactgttt attgttttcc aaactaattt ctattcttgg ctttggattt 120

attacacttt caaatgtcaa atatgctctt cggattgcat attgaatttt acaggcagca 180

gtagcccaag cagcattggc ttaccagctc taccaaagga aattttctgg tcaaagtggg 240

aactctaagt 250

<210> 536
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 536

tgtttgatag aaataatgga tcggaacggg ccaaagatca naagtacaat tcttcaccat 60

ctctatgata agcagagaca gagcccttac tatgacaatc tctgtcgccc tgtttcagat 120

ttgcttccat ttattgccaa tgggatcaga ggtgtcacta ccaacccagc ggtactcact 180

actcagtttt ttcttcacct gaaaacatta ctcttctcca tttggtttta tttttatcta 240

gtttctgtgt gttggttata ataacttttc agtgttctca catcgcagat ttttgaaaga 300

gctatttcat cctcaaatgc ctacgatgat cag 333

<210> 537
<211> 280
<212> DNA
<213> Glycine max

<400> 537

ggacaccctc attgacaagg cccttgagaa aattggcacc ccagtggccc ttaatctacg 60

cgggaaggca gcggtagccc aagcagcatt ggcttaccag ctctaccaaa ggaaattttc 120

tggtccaagg tgggaagctc tagttaaaaa gggggccaag aagcaaaggc tcctctgggc 180

ctcaaccagt gtaaagaatc ctgcctattc tgacacctta tatgttgctc ctcttattgg 240

acccgacact gtatcaacaa tgccagacca agcccttcaa 280

<210> 538
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 538

gtgttgcctc tttctttgtc agtagagtgg acactctcca ttgacaaggc ccttgagaaa 60

attggcaccc cagaggctct taatctacgt gggaaggcag cagtagccca agcagcattg 120

gcttaccacc tctaccaaag gaaattttct ggtccaaggt gggaagctct agttaaaaag 180

ggggccaaga agcaaaggct ctttgggcct caaccagtgt aaagaaccct gcctattctg 240

acacntatat gttgctcctc tattggaccc gacatgatca accagccaga ccaa 294

<210> 539
<211> 221
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 539

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atctacgcgg gaaggcagcg gtagcccaag cagcattggc ttaccagctc taccaaagga 120

aattttctgg tccaaggtgg gaagctctag ttaaaaaggg ggccaagaag caaaggctcc 180

tctgggcctc aaccagtgta aagaatcctg cctattctga c 221

<210> 540
<211> 299
<212> DNA
<213> Glycine max

<400> 540

tattctcagt ttgcggtgtt tgatagaaat aatggatcgg aacgggccaa agatcaaaag 60

tacaattctt caccatctct atgagaagca gagacagagc ccttactatg acaatctctg 120

tcgccctgtt tcaggtttgc ttccatttat tgccaatggg atcagaggtg tcactaccaa 180

cccagcgatt tttgaaagag ctatttcatc ctcaaatgcc tacgatgatc agttgaggga 240

attggtaggg gcagggaagg acatagaaag tgcttattgg gaattggttg tgaaggaca 299

<210> 541
<211> 240
<212> DNA
<213> Glycine max

<400> 541

gaagcagaga cagagccctt actatgacaa tctctgtcgc cctgtttcag atttgcttcc 60

atttattgcc aatgggatca gaggtgtcac taccaaccca gcgatttttg aaagagctat 120

ttcatcctca aaatgctacg atgatcagtt gagggaaatg gtcagggcca ggaaggacat 180

agaaagtgct tattgggaat tggttgtgaa ggacatacag gatacttgca aacttctgga 240

<210> 542
<211> 278
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 542

tttcacttgc tctctctttg ctcttatccc ttttcctttn tctnctttc ctttgggttt 60

tctattctca gtttgcggtg tttgatagaa ataatggatc ggaaccggcc aaagatcaaa 120

agtacaattc ttcaccatct ctatgagaag cagagacaga gcccttacta tgacaatctc 180

tgtcgccctg tttcagattt gcttccattt attgccaatg ggatcagagg tgtcactacc 240

aacccagcga tttttganag agctatttca tcctcaag 278

<210> 543
<211> 254
<212> DNA
<213> Glycine max

<400> 543

attttttctt tttcttcttt tcctttgggt tttctattct cagtttgcgg tgtttgatag 60

aaataatgga tcggaacggg ccaaagatca aaagtacaat tcttcaccat ctctatgaga 120

agcagagaca gagcccttac atgacaatct ctgtcgccct gtttcagatt tgcttccatt 180

tattgccaat gggatcagag gtgtcactac caacccagcg atttttgaaa gagctatttc 240

atcctcaaat gcct 254

<210> 544
<211> 236
<212> DNA
<213> Glycine max

<400> 544

caagaagcaa aggctccttt gggcctcaac cagtgtaaag aaccctgcct attctgacac 60

cttatatgtt gctcctctta ttggacccga cactgtatca accatgccag accaagccct 120

tcaagcattt attgatcatg gtaccgtatc caggacaata gactcaaatg catctgaagc 180

tgaaggaata tacaatgctc tccagaaatt gggtattgac tggagctttg ttggtt 236

<210> 545
<211> 260
<212> DNA
<213> Glycine max

<400> 545

ggctcctttg ggcctcaacc agtgtaaaga accctgccta ttctgacacc ttatatgttg 60

ctcctcttat tggacccgac actgtatcaa ccatgccaga ccaagccctt caagcattta 120

ttgatcatgg taccgtatcc aggacaatag actcaatgca tctgaagctg aaggaatata 180

caatgctctc cagaaattgg gtattgactg gagctttgtt ggttcccagc ttgaacttga 240

aggagtggac tcgtttaaga 260

<210> 546
<211> 250
<212> DNA
<213> Glycine max

<400> 546

gaaggaatat acaatgctct ccagaaattg ggtattgact ggagctttgt tggttcccag 60

cttgaacttg aaggagtgga ctcgtttaag aagagctttg acagcctcct ggattctctg 120

caagagaagg caaactctct taagttggtc agccattgaa gtgtgaacgt catagttagt 180

aatgcagtgc tatgtatgaa gtgatttatg gattaataaa aggcagtggc tgtgcatttt 240

gtgctgctgt 250

<210> 547
<211> 265
<212> DNA
<213> Glycine max

<400> 547

ctcgagccgg gaatatacaa tgctctccag aaattgggta ttgactggag ctttgttgga 60

ctcccagctt gaacttgaag gagtggactc gtttaagaag agctttgaca gcctcctgga 120

ttctctgcaa gagaaggcaa actctcttaa gttggtcagc cactgaagtt tgaacgtcat 180

ggttagtaat gcagtgctgt gtatgatggc atctatggat taataaaagg cagcggctgt 240

gcattttgtg ctgctgcaaa tgtgc 265

<210> 548
<211> 228
<212> DNA
<213> Glycine max

<400> 548

cgtcatggtt gctcctctta ttggacccga cactgtatca accatgccag accaagccct 60

tcaagcattt attgatcatg gtaccgtatc caggacaata gactcaaatg tgcttcatgg 120

agtcatttat ttagacgata gtgatacaat gtaaatggga aaaattgtcc gcttcaagtc 180

aagcgttttg ttttttcccc actatacaat ggttgtgcgt ttatgttt 228

<210> 549
<211> 224
<212> DNA
<213> Glycine max

<400> 549

cgtcatggat gctcctctta ttggacccga cactgtatca accatgccag accaagccct 60

tcaagcattt attgatcatg gtaccgtatc caggacaata gactcaaatg tgcttcatgg 120

agtcatttat ttagacgata gtgatacaat gtacttggga aaaattgtcc gcttcaagtc 180

aagcgttttg ttttttcccc actatacaat ggttgtgcga ttat 224

<210> 550
<211> 238
<212> DNA
<213> Glycine max

<400> 550

gatcaaatgc tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga 60

tctttatgag aaagaagggc agagtccatg gtatgataat ctctgcagac ctgttacaga 120

ccttcttcct cttatagcaa gtggtgtcag aggcgtcact agcaaccctg cgatttttca 180

gaaagctatc tcatcatcga atgcttacaa tgatcagttc agggaacttg tgcaagca 238

<210> 551
<211> 269
<212> DNA
<213> Glycine max

<400> 551

ggaatggaag tcctgcaaag aggacagtgc ttcatgatct ttatgagaaa gaagggcaga 60

gtccatggta tgataatctc tgcagacctg ttacagacct gcttcctctt atagcaagtg 120

gtgtcagagg cgtcactagc aaccctgcga tctttcagaa agctatctca tcatcgaatg 180

cttacaatga tcagttcagg gaacttgtgc aaacagggaa agacattgaa agtgcatatt 240

gggaacttgt agtgaaggat atccaagat 269

<210> 552
<211> 272
<212> DNA
<213> Glycine max

<400> 552

aattaacctc tccgcttccc tccgatccat tcactccctc cctcttaaaa cctccttgcg 60

gatcaaatgc tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga 120

tctttatgag aaagaagggc agagtccatg gtatgataat ctctgcagac ctgttacaga 180

ccttcttcct cttatagcaa gtggtgtcag aggcgtcact agcaaccctg cgatttttca 240

gaaagctatc tcatcatcga atgcttacaa tg 272

<210> 553
<211> 231
<212> DNA
<213> Glycine max

<400> 553

gctccctctt aaaacctcct tacggatcaa atgctcccaa acagatggga atggaagtcc 60

tgcaaagagg acagtgcttc atgatcttta tgagaaagaa gggcagagtc catggtatga 120

taatctctgc agacctgtta cagacctgct tcctcttata gcaagtggtg tcagaggcgt 180

cactagcaac cctgcgatct ttcagaaagc tatctcatca tcgaatgctt a 231

<210> 554
<211> 237
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 554

tacaaaatta acctctccgc ttccaccnga tccattcact cactcnntct taaaanctcc 60

ttncggatca aatgctccca aacagatggg aatggaagtc ctgcaaagag gacagtgctt 120

catgatcttt atgagaaaga acngcagagt ccatggtatg ataatctctg cagacctgtt 180

acagaccttc ttcctcttat agcaagtggt gtcagaggng tcactagcaa ccctgng 237

<210> 555
<211> 270
<212> DNA
<213> Glycine max

<400> 555

taaaactaac ctatccgctt ccctccgatc cattcactcg ctccctctta aaacctcctt 60

acggatcaaa tgctcccaaa cagatgggaa tggaagtctg caaagaggac agtgcttcat 120

gatctttatg agaaagaagg gagagtccat ggtatgataa tctctgcaga cctgttacag 180

actgcttctc ttatagcaag tggtgtcaga ggcgtcatta gcaacctgcg catctttcag 240

aaagctatct catcatcgaa tgttacatga 270

<210> 556
<211> 292
<212> DNA
<213> Glycine max

<400> 556

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagaagcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagaagg gcagagtcca tggtatgata atctctgcag acctgttaca ga 292

<210> 557
<211> 165
<212> DNA
<213> Glycine max

<400> 557

caaaattaac ctctccgctt ccctccgatc cattcactcc ctccctctta aaacctcctt 60

gcggatcaaa tgctcccaaa cagatgggaa tggaagtcct gcaaagagga cagtgcttca 120

tgatctttat gagaaagaag ggcagagtcc atggtatgat aatct 165

<210> 558
<211> 289
<212> DNA
<213> Glycine max

<400> 558

cattttcaag ctctcaacgc catctccagc tgcttcctta tcagaagcgc ttcgccccag 60

agattctcgc ttcctctcct tcaatccttc ttccaacgct attaattaca aaattaacct 120

ctccgcttcc ctccgatcca ttcactccct ccctcttaaa acctccttgc ggatcacctg 180

ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg atctttatga 240

gaaagaaggg cagagtccat ggtatgataa tctctgcaga cctgttaca 289

<210> 559
<211> 275

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 559

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagangcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

aganagaagg gcagagtcca tggtatgata atctc 275

<210> 560
<211> 274
<212> DNA
<213> Glycine max

<400> 560

attttcaagc tctcaacgcc atctccagct gcttccttat cagaagcgct tcgccccaga 60

gattctcgct tcctctcctt caatccttct tccaacgcta ttaattacaa aattaacctc 120

tccgcttccc tccgatccat tcactcctcc ctcttaaaac ctccttgcgg atcaaatgct 180

cccaaacaga tgggaatgga agtcctgcaa agaggacagt gcttcatgat ctttatgaga 240

aagaagggca gagtccatgg tatgataatc tctg 274

<210> 561
<211> 270
<212> DNA
<213> Glycine max

<400> 561

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagaagcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatca ttcactccct ccctcttaaa acctccttgc ggatcaaatg 180

ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg atctttatga 240

gaaagaaggg cagagtccat ggtatgataa 270

<210> 562

<211> 265
<212> DNA
<213> Glycine max

<400> 562

cgcctccatt ttcaagctct caacgccatc tccagctgct tccttatcag aagcgcttcg 60

ccccagagat tctcgcttcc tctccttcaa tccttcttcc aacgctatta attacaaaat 120

taacctctcc gcttccctcc gatccattca ctccctccct cttaaaacct ccttgcggat 180

caaatgctcc caaacagatg ggaatggaag tcctgcaaag aggacagtgc ttcatgatct 240

ttatgagaaa gaagggcaga gtcca 265

<210> 563
<211> 261
<212> DNA
<213> Glycine max

<400> 563

attttcaagc tctcaacgcc atctccagct gcttccttat cagaagcgct tcgccccaga 60

gattctcgct tcctctcctt caatccttct tccaacgcta ttaattacaa aattaacctc 120

tccgcttccc tccgatccat tcactccctc cctcttaaaa cctccttgcg gatcaaatgc 180

tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga tctttatgag 240

aaagaagggc agagtccatg g 261

<210> 564
<211> 282
<212> DNA
<213> Glycine max

<400> 564

tccattttca agctctcaac gccatctcca gctgcttcct tatcataagc gcttcgcccc 60

agagattctc gcttcctctc cttcaatcct tcttccaacg ctattaatta cacaattaac 120

ctctccgctt ccctccgatc cattcactcc ctccctctta aaacctcctt gcggatcaaa 180

tgctcccaaa cagatgggaa tggaagtcct gcaaagagga cagtgcttca tgatctttat 240

gagaaagaag ggcagagtcc atggtatgat aatctctgca ga 282

<210> 565

<211> 290
<212> DNA
<213> Glycine max

<400> 565

tccgcttcgt gacttgcagc aattcccaat ggcttccgtt tccaagctct caacgccaaa 60

tccacttgct tccttatcag aagcgcttcg cccccgagat tctcgcttcc tcaccttcaa 120

accttcttcc atcgctttta atcacaaaac taacctatcc gcttccctcc gatccattca 180

ctcgctccct cttaaaacct ccttacggat caaatgctcc caaacagatg ggaatggaag 240

tcctgcaaag aggacagtgc ttcatgatct ttatgagaaa gaagggcaga 290

<210> 566
<211> 256
<212> DNA
<213> Glycine max

<400> 566

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagaagcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagaagg gcagag 256

<210> 567
<211> 271
<212> DNA
<213> Glycine max

<400> 567

gcttcgtgac ttgcagcaat tcccaatggc ttccgtttcc aagctctcaa cgccaaatcc 60

acttgcttcc ttatcagaag cgcttcgccc ccgagattct cgcttcctca ccttcaaacc 120

ttcttccatc gcttttaatc acaaaactaa cctatccgct tccctccgat ccattcactc 180

gctccctctt aaaacctcct tacggatcaa atgctcccaa acagatggga atggaagtcc 240

tgcaaagagg acagtgcttc atgatcttta t 271

<210> 568

<211> 284
<212> DNA
<213> Glycine max

<400> 568

tacttggtgt cttgcaattc ccaatggcct ccattttcaa gctctcaacg ccatctccag 60

ctgcttcctt atcagaagcg cttcgcccca gagattctcg cttcctctcc ttcaatcctt 120

cttccaacgc tattaattac aaaattaacc tctccgcttc cctccgatcc attcactccc 180

tccctcttaa aacctccttg cggatcaaat gctcccaaac agatgggaat ggaagtcctg 240

caaagaggac agtgcttcat gatctttatg agaaagaagg gcag 284

<210> 569
<211> 264
<212> DNA
<213> Glycine max

<400> 569

ctgacttgca gcaattccca atggcttccg tttccaagct ctcaacgcca aatccacttg 60

cttccttatc agaagcgctt cgcccccgag attctcgctt cctcaccttc aaaccttctt 120

ccatcgcttt taatcacaaa actaacctat ccgcttccct ccgatccatt cactcgctcc 180

ctcttaaaac ctccttacgg atcaaatgct cccaaacaga tgggaatgga agtcctgcaa 240

agaggacatg cttcatgatc ttta 264

<210> 570
<211> 250
<212> DNA
<213> Glycine max

<400> 570

caatggcctc cattttcaag ctctcaacgc catctccagc tgcttcctta tcagaagcgc 60

ttcgccccag agattctcgc ttcctctcct tcaatccttc ttccaacgct attaattaca 120

aaattaacct ctccgcttcc ctccgatcca ttcactccct ccctcttaaa acctccttgc 180

ggatcaaatg ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg 240

atctttatga 250

<210> 571

<211> 272
<212> DNA
<213> Glycine max

<400> 571

ctcgagccga gcaattccca atggcttccg tttccaagct ctcaacgcca aatccacttg 60

cttccttatc agaagcgctt cgcccccgag attctcgctt cctcaccttc aaacctactc 120

ccatcgcttt taatcacaaa actaacctat ccgcttccct ccgatccatt cactcgctcc 180

ctcttaaaac ctccttacgg atcaaatgct cccaaacaga tgggaatgga agtcctgcaa 240

cgaggacagt gcttcatgat ctttatgaga aa 272

<210> 572
<211> 272
<212> DNA
<213> Glycine max

<400> 572

cgcttcgtga cttgcagcaa ttcccaatgg cttccgtttc caagctctca acgccaaatc 60

cacttgcttc cttatcagaa gcgcttcgcc cccgagattc tcgcttcctc accttcaaac 120

cttcttccat cgcttttaat cacaaaacta acctatccgc ttccctccga tccattcact 180

cgctccctct taaaacctcc ttacggatca aatgctccca aacagatggg aatggaagtc 240

ctgcaaagag gacagtgctt catgatcttt at 272

<210> 573
<211> 237
<212> DNA
<213> Glycine max

<400> 573

ctcaacgcca tctccagctg cttccttatc agaagcgctt cgccccagag attctcgctt 60

cctctccttc aatccttctt ccaacgctat taattacaaa attaacctct ccgcttccct 120

ccgatccatt cactccctcc ctcttaaaac ctccttgcgg atcaaatgct cccaaacaga 180

tgggaatgga agtcctgcaa agaggacagt gcttcatgat ctttatgaga aagaagg 237

<210> 574
<211> 251
<212> DNA

<213> Glycine max

<400> 574

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagaagcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagaagg g 251

<210> 575
<211> 233
<212> DNA
<213> Glycine max

<400> 575

ctgacttgca gcaattccca atggcttccg tttccaagct ctcaacgcca aatccacttg 60

cttccttatc agaagcgctt cgcccccgag attctcgctt cctcaccttc aaaccttact 120

ccatcgcttt taatcacaaa actaacctat ccgcttccct ccgatccatt cactcgctcc 180

ctcttaaaac ctccttacgg atcaaatgct cccaaacaga tgggaatgga agt 233

<210> 576
<211> 279
<212> DNA
<213> Glycine max

<400> 576

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagaagcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagacgg gcagagtcca tggtatgatc atctctgca 279

<210> 577
<211> 244
<212> DNA
<213> Glycine max

<400> 577

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagaagcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc ctccgatcca ttcactccct ccctcttaaa acctccttgc ggatcaaatg 180

ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg atctttatga 240

gaaa 244

<210> 578
<211> 249
<212> DNA
<213> Glycine max

<400> 578

caagctctca acgccatctc cagctgcttc cttatcagaa gcgcttcgcc ccagagattc 60

tcgcttcctc tccttcaatc cttcttccaa cgctattaat tacaaaatta acctctccgc 120

ttccctccga tccattcact ccctccctct taaaacctcc ttgcggatca aatgctccca 180

aacagatggg aatggaagtc ctgcaaagag gacagtgctt catgatcttt atgagaaaga 240

gggcagagt 249

<210> 579
<211> 245
<212> DNA
<213> Glycine max

<400> 579

ccattttcaa gctctcaacg ccatctccag ctgcttcctt atcagaagcg cttcgcccca 60

gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaa 245

<210> 580
<211> 293
<212> DNA
<213> Glycine max

<400> 580

gctatctcat catcgaatgc ttacaatgat cagttcaggg aacttgtgca aacagggaaa 60

gacattgaaa gtgcatattg ggaacttgta gtgaaggata tccaagatgc ttgcagacta 120

tttgaaccaa tctatgatca aacagatggt ggtgatggta tgtttctgtt gaagtatctc 180

ctaggctcgc tgatgacact gagggaacca tagaagctgc aaaatggctt cataaagtgg 240

ttgatcgccc caatgtgtat attaagattc ctgctacaga ggcatgtgtg cct 293

<210> 581
<211> 271
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 581

cgacctgctt cctcttatag caagtggtgt cagangcgtc actagcaacc ctgcgatctt 60

tcagaaagct atctcatcat cgaatgctta caatgatcag ttcagggaac ttgtgcaaac 120

agggaaagac attgaaagtg catattggga acttgtagtg aaggatatcc aagatgcttg 180

cagactattt gaaccaatct atgatcaaac agatggtggt gatgggtatg tttctgtnga 240

agtatctcct aggctcgctg atgacactga g 271

<210> 582
<211> 274
<212> DNA
<213> Glycine max

<400> 582

ctagatgctt gcaaattatt tgaaccaatc tatgatcaaa cagatggtgg tgatggctat 60

gtttctgttg aagtatctcc caggctcgct gatgacactg agggaaccat agaagctgca 120

aaatggcttc ataaagtggt tgatcgcccc aatgtgtata ttaagattcc tgctacagag 180

gcatgtgtgc cttcaattaa ggaagttatt gctaatggga taagtgtgaa tgtgacgctg 240

atattctctc ttgcaagata tgaagctgta atag 274

<210> 583
<211> 267
<212> DNA
<213> Glycine max

<400> 583

aagacattga aagtgcatat tgggaacttg tagtgaagga tatccaagat gcttgcaaat 60

tatttgaacc aatctatgat caaacagatg gtggtgatgg ctatgtttct gttgaagtat 120

ctcccaggct cgctgatgac actgagggaa ccatagaagc tgcaaaatgg cttcataaag 180

tggttgatcg ccccaatgtg tatattaaga ttcctgctac agaggcatgt gtgccttcaa 240

ttaaggacgt tattgctaat gggataa 267

<210> 584
<211> 248
<212> DNA
<213> Glycine max

<400> 584

agaaagtgca tattgggaac ttgtagtgaa ggatatccaa gatgcttgca gactatttga 60

accaatctat gatcaaacag atggtggtga tgggtatgtt tctgttgaag tatctcctag 120

gctcgctgat gacactgagg gaaccataga agctgcaaaa tggcttcata aagtggttga 180

tcgccccaat gtgtatatta agattcctgc tacagaggca tgtgtgcctt caattaagga 240

agttattg 248

<210> 585
<211> 253
<212> DNA
<213> Glycine max

<400> 585

gcgattactc agaaagctat ctcatcatcg actccttaca atgatcagtt cagggaactt 60

ctgcaagcag ggaaagacat tgaaagtgca tattgggaac ttgtagtgaa ggatatccaa 120

gatgcttgca aattatttga accaatctat gatcaaacag atggtggtga tggctatgtt 180

tctgttgaag tatctcccag gctcgctgat gaacctgagg gaaccatagc agctgcaaaa 240

tggcttcata aag 253

<210> 586
<211> 253
<212> DNA
<213> Glycine max

<400> 586

gaagctgcaa aatggcttca taaagtggtt gatcgcccca atgtgtatat taagattcct 60

gctacagagg catgtgtgcc ttcaattaag gaagttattg ctaatgggat aagtgtgaat 120

gtgacgctga tattctctct tgcaagatat gaagctgtaa ttgatgcata cttggatggt 180

cttgaggcat ctgagttaaa tgacctctct agagttacaa gtgttgcctc tttcttcgtc 240

agtagagtgg aca 253

<210> 587
<211> 264
<212> DNA
<213> Glycine max

<400> 587

ctcgagccta agacattgaa agtgcatatt gggaacttgt agtgaaggat atccaagatg 60

cctgcagact atttgaacca atctatgatc aaacagatgg tggtgatggg tatgtttctg 120

ttgaagtatc tcctaggctc gctgatgaca ctgagggaac cattgaagct gcaaaatggc 180

ttcataaagg gttgatcgcc ccaatgtgta tattaagatt cctgctacag aggcatgtgt 240

gccttcaatt aaggaagtta ttgc 264

<210> 588
<211> 263
<212> DNA
<213> Glycine max

<400> 588

ctgatattct ctcttgcaag atatgaagct gtaatagatg cttacttgga tggtcttgag 60

gcatctgggt taaatgacct ctctagagtt acaagtgttg cctctttctt tgtcagtaga 120

gtggacactc tcattgaaag gcccttgaga aaattggcac cccagaggct cttaatctac 180

gtgggaaggc agcagtagcc caagcagcat tggcttacca gctctaccaa aggaaatttt 240

ctggtccaag gtgggaagct cta 263

<210> 589
<211> 244
<212> DNA
<213> Glycine max

<400> 589

gggataagtg tgaatgtgac gctgatattc tctcttgcaa gatatgaagc tgtaatagat 60

gcttacttgg atggtcttga ggcatctggg ttaaatgacc tctctagagt tacaagtgtt 120

gcctctttct ttgtcagtag agtggacact ctcattgaca aggcccttga gaaaattggc 180

accccagagg ctcttaatct acgtgggaag gcagcagtag cccaagcagc attggcttac 240

cagc 244

<210> 590
<211> 228
<212> DNA
<213> Glycine max

<400> 590

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tgggaacttg tagtgaagga tatccaagat gcttgcagac tatttgaacc aatctatgat 120

caaacagatg gtggtgatgg gtatgtttct gttgaagtat ctcctaggct cgctgatgac 180

actgagggaa ccatagaagc tgcaaaatgg cttcataaag tggttgat 228

<210> 591
<211> 265
<212> DNA
<213> Glycine max

<400> 591

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tcctgctaca gaggcatgtg tgccttcaat taaggaagtt attgctaatg ggataagtgt 120

gaatgtgacg ctgatattct ctcttgcaag atatgaagct gtaatagatg cttacttgga 180

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tgtcagtaga gtggacactc tcatt 265

<210> 592
<211> 281
<212> DNA
<213> Glycine max

<400> 592

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aacagggaaa gacattgaaa gtacatattg ggaacttgta gtgaaggata tccaagatgc 120

ttgcagacta tttgaaccaa tctatgatca aacagatggt ggtgatgggt atgtttctgt 180

tgaagtatct cctaggctcg ctgatgacac tgagggaacc atagaagctg caaaatggct 240

tcataaagtg gttgatcgcc ccaatgtgta tattaagatt c 281

<210> 593
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 593

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aaagtgcata ttgggaactt gtagtgaagg atatcnaaaa tgcnaaaaan gananttgaa 120

accaatctat gancaaacag atggnggtga tgggtatgtt tctgttgaag tatctcctag 180

ggctcgctga tgaacactga gggaaccata gaagctgcaa aatggcttca taaagtggnt 240

gatcggccca atgtgtatat taagattcct gnttacagag g 281

<210> 594
<211> 260
<212> DNA
<213> Glycine max

<400> 594

gccttcaatt aaggaagtta ttgctaatgg gataagtgtg aatgtgacgc tgatattctc 60

tcttgcaaga tatgacgctg taatagatgc ttacttggat ggtcttgagg catctgggtt 120

aaatgacctc tctagagtta caagtgttgc ctctttcttt gtcagtagag tggacactct 180

cattgacaag gcccttgaga aaattggcac cccagaggct cttaatctac gtgggaaggc 240

agcagtagcc caagcagcat 260

<210> 595
<211> 217
<212> DNA
<213> Glycine max

<400> 595

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gaagctgtaa ttgatgcata cttggatggt cttgaggcat ctgagttaaa tgacctctct 120

agagttacaa gtgttgcctc tttcttcgtc agtagagtgg acaccctcat tgacaaggcc 180

cttgagaaaa ttggcacccc agtggccctt aatctac 217

<210> 596
<211> 212
<212> DNA
<213> Glycine max

<400> 596

ctatgatcaa acagatggtg ctgatggcta tgtttctgtt gaactatctc ccaggctcgc 60

tgatgacact gagggaacca tagaagctgc aaaatggctt cataaagtgg ttgatcgccc 120

caatgtgtat attaagattc ctgctacaga ggcatgtgtg ccttcaatta aggaagttat 180

tgctaatggg ataagtgtga atgtgacgct ga 212

<210> 597
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 597

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cgcatcatcg aaggnttacn atgatcngtt cagggaactt ggtgcaagca gggaaagaca 120

ttgaaagtgc atattgggaa ctngtagtga aggatatcca agatgcttgc aaattatttg 180

aaccantcta tnatcaaaca gatggtggtg atggctatgt ttctgttgaa gtatctccca 240

ggctcgctga tgacactgag gganccatag aactgcaaaa tggcttcat 289

<210> 598
<211> 260
<212> DNA
<213> Glycine max

<400> 598

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gatggtcttg aggcatctga gttaaatgac ctctctagag ttacaagtgt tgcctctttc 120

ttcgtcagta gagtggacac cctcattgac aaggcccttg agaaaattgg caccccagtg 180

gcccttaatc tacgcgggaa ggcagcggta gcccaagcag cattggctta ccagctctac 240

caaaggaaat tttctggtcc 260

<210> 599
<211> 229
<212> DNA
<213> Glycine max

<400> 599

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atatgaagct gtaattgatg catacttgga tggtcttgag gcatctgagt taaatgacct 120

ctctagagtt acaagtgttg cctctttctt cgtcagtaga gtggacaccc tcattgacaa 180

ggcccttgag gaaattggca ccccagtggc ccttaatcta cgcgggaag 229

<210> 600
<211> 182
<212> DNA
<213> Glycine max

<400> 600

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ctggatggtc ttgaggcatc tgagttaaat gacctctcta gagttacaag tgttgcctct 120

ttcttcgtca gtagagtgga caccctcatt gacaaggccc ttgagaaaat tggcacccca 180

gt 182

<210> 601
<211> 399
<212> DNA
<213> Glycine max

<400> 601

gatgaatcca tctcttccat gaaggaggtc atttctttgg ggataagtgt aaatgccact 60

ctcatattct gcctccctaa atatgaagca gtgattgatg cttacttgga tggccttgag 120

tcttgtggca tgactgatct ctctaaggtt tcaagtgcag cagcattcta catcagtaga 180

gtggatgtta cacttgacaa gaaacttgag caaattggta ctactgaggc tcttgatctc 240

aaaggaaagg gtgcggttgc tcaagcagtc ttagcatacc aactttacca gaaaaaattt 300

tctggtccaa gatgggaacg cttggagaat agaagtgcca agaagcagag gttgatgtgg 360

gcttcaacaa atgtgaaaaa tccatcttac cctgacaca 399

<210> 602
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 602

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tcagtagaat ggacaccctc attgacaagg cccttgagaa aattggcacc ccaatggccc 120

ttaatctacg tgggaaggca acggtagccc aagcagcatt ggcttaacag ctctaccaaa 180

gaaattttct ggtccaaagt gggaagctct agttaaaaag ggggccaaga agcaaaggct 240

cctctgggcc ttaaccagtg taaagaatcc tgcctattct gacaccttat atgttgctcc 300

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<210> 603
<211> 399
<212> DNA
<213> Glycine max

<400> 603

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cccttactat gacaatctct gtcgccctgt ttcagatttg cttccattta ttgccaatgg 120

gatcagaggt gtcactacca acccagcgat ttttgaaaga gctatttcat cctcaaatgc 180

ctacgatgat cagttgaggg aattggtagg ggcagggaag gacatagaaa gtgcttattg 240

ggaattggtt gtgaaggaca tacaggatac ttgcaaactt ctggagccaa tttacaatga 300

aacagatggg gaagatggac atgtatctct tgcagtttcc ccaaagctag caaatgacac 360

caaggggaca attgaggcag caaaatggct tcataatat 399

<210> 604
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 604

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tcaaatgcat ctgaagctga aggaatatac aatgctctcc agaaattggg tattgactgg 120

agctttgttg gttcccagct tgaacttgaa ggagtggact cgtttaagaa gagctttgac 180

agcctcctgg attctctgca agagaaggca aactctctta agttggtcag ccactgaagt 240

ttgaacgtca tggttagtaa tgcagtgctg tgtatgatgg catctatgga ttaataaaag 300

gcagcggctg tgcattttgt gctgctgcan atgtgcttca tggagtcatt tatttagacg 360

atagtgatac aatgtaaatg ggaaaaattg tccgcttcaa gtcaagcgtt ttgttttt 418

<210> 605
<211> 396
<212> DNA
<213> Glycine max

<400> 605

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caatccttct tccaacgcta ttaattacaa aattaacctc tccgcttccc tccgatccat 120

tcactccctc cctcttaaaa cctccttgcg gatcaaatgc tccaaacaga tgggaatgaa 180

gtcctgcaaa gaggacagtg cttcatgatc tttatgagaa agaagggcag agtccatggt 240

atgataatct ctgcagacct gttacagacc ttcttcctct tatagcaagt ggtgtcagag 300

gcgtcactag caaccctgcg atttttcaga aagctatctc atcatcgaat gcttacaatg 360

atcagttcag ggaacttgtg caagcaggga aagaca 396

<210> 606
<211> 428
<212> DNA
<213> Glycine max

<400> 606

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gaggttctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagatag gcagagtcca tggtatgata atctctgcag acctgttaca gaccttctta 300

ctcttatagc aagtggtgtc agaggcgtca ctagcaaccc tgcgattttt cagaaagcta 360

tctcatcatc gaatgcttac aatgatcagt tcaaggaact tgtgcaagca tggaaagaca 420

ttgaaagt 428

<210> 607
<211> 373
<212> DNA
<213> Glycine max

<400> 607

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ctgcttcaat ccttatgcca acgctatcaa ttacaaaatt gacctctccg cttgcctccg 120

atccattcac tccctgccta ttaaaaccta cttgcggatc aaatgctccc aaacagatgg 180

gaatggaagt cctgctaaga ggacagcgct tcatgatctt tatgagaaag aagggcagag 240

tccatggtat gataatctct gcagacctgt tacagagctt gttcctgtta tagcacgtgg 300

tgtcagaggc gtcactagca accctgcgat ttttcagaaa gctatctcat catcgaatgc 360

ttacaatgat cag 373

<210> 608
<211> 405
<212> DNA
<213> Glycine max

<400> 608

gcaattccca atggcctcca ttttcaagct ctcaacgcca tctccagctg cttccttatc 60

agaagcgctt cgccccagag attctcgctt cctctccttc aatccttctt ccaacgctat 120

taattacaaa attaacctct ccgcttccct ccgatccatt cactcctcc ctcttaaaac 180

ctccttgcgg atcaaatgct cccaaacaga tgggaatgga agtcctgcaa agaggacagt 240

gcttcatgat ctttatgaga aagaaaggca gagtccatgg tatgataatc tctgcagacc 300

tgttacagac cttcttcctc ttatagcaag tggtgtcaga ggcgtcacta gcaaccctgc 360

gatttttcag aaagctatct catcatcgaa tgcttacaat gatca 405

<210> 609
<211> 417
<212> DNA
<213> Glycine max

<400> 609

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aatggcctcc attttcaagc tctcaacgcc atctccagct gcttccttat cagaagcgct 120

tcgccccaga gattctcgct tcctctcctt caatccttct tccaacgcta ttaattacaa 180

aattaacctc tccgcttccc tccgatccat tcactccctc cctcttaaaa cctccttgcg 240

gatcaaatgc tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga 300

tctttatgag aaagaagggc agagtccatg gtatgataat ctctgcagac ctgttacaga 360

ccttcttcct cttatagcaa gtggtgtcag aggcgtcact agcaaccctg cgatttt 417

<210> 610
<211> 414
<212> DNA
<213> Glycine max

<400> 610

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agaagacgac agaaggggac tccatcctcc gcttcgtgac ttgcagcaat tcccaatggc 120

ttccgtttcc aagctctcaa cgccaaatcc acttgcttcc ttatcagaag cgcttcgccc 180

ccgagattct cgcttcctca ccttcaaacc ttcttccatc gcttttaatc acaaaactaa 240

cctatccgct tccctccgat ccattcactc gctccctctt aaaacctcct tacggatcaa 300

atgctcccaa acagatggga atggaagtcc tgcaaagagg acagtgcttc atgatcttta 360

tgagaaagaa gggcagagtc catggtatga taatctctgc agacctgtta caga 414

<210> 611
<211> 454
<212> DNA
<213> Glycine max

<400> 611

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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagaagg gcagagtcca tggtatgata atctctgcag acctgttaca gaccttcttc 300

ctcttatagc aagtggtgtc agaggcgtca ctagcaaccc tgcgattttt cagaaagcta 360

tctcatcatc gaatgcttac aatgatcagt tcacggaact tgtgcaagcg ggaaagacat 420

ttgaagtgca tattgggaac ttgtaatgaa agat 454

<210> 612
<211> 389
<212> DNA
<213> Glycine max

<400> 612

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cccagagatt ctcgcttcct ctccttcaat ccttcttcga acgctattaa ttacaaaatt 120

aacctctccg cttccctccg atccattcac tccctccctc ttaaaacctc cttgcggatc 180

aaatgctccc aaacagatgg gaatggaagt cctgcaaaga ggacagtgct tcatgatctt 240

tatgagaaag aagggcagag tccatggtat gataatctct gcagacctgt tacagacctt 300

cttcctctta tagcaagtgg tgtcagaggc gtcactagca accctgcgat ttttcagaaa 360

gctatctcat catcgaatgc ttacaatga 389

<210> 613
<211> 384
<212> DNA
<213> Glycine max

<400> 613

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gtctccttca atccttcttc caacgctatt aattacaaaa ttaacctctc cgcttccctc 120

cgatccattc actccctacc tcttaaaacc tacttgcgga tcaaatgctc ccaaacagat 180

gggaatggaa gtcctgcaaa gaggacagtg cttcatgatc tttatgagaa agataggcag 240

aatccatgga atgacaatct ctgcaaacct gttacagacc ttcttcctct tatagcaagt 300

ggtgtcagag gcgtcactag gcaccctgcg atttttcaga aagctatctc atcatcgaat 360

gcttacaatg atcaattcaa ggaa 384

<210> 614
<211> 408
<212> DNA
<213> Glycine max

<400> 614

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atttgaacca atctatgatc aaacagatgg tggtgatggc tatgtttctg ttgaagtatc 120

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atatgaagct gtaatagatg cttacttgga tggtcttgag gcatctgggt taaatgacct 360

gtctagagtt acaagtgttg cctctttctt tgtcagtaga gtggacac 408

<210> 615
<211> 434
<212> DNA
<213> Glycine max

<400> 615

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tatgtttctg ttgaagtatc tcccaggctc gctgatgaca ctgagggaac catagaagct 120

gcaaaatggc ttcataaagt ggttgatcgc cccaatgtgt atattaagat tcctgctaca 180

gaggcatgtg tgccttcaat taaggaagtt attgctaatg ggataagtgt gaatgtgacg 240

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gcatctgggt taaatgacct ctctagagtt acaagtgttg cctctttctt tgtcagtaga 360

gtggacactc tcattgacaa ggcccttgag aaaattggca ccccagaggc tcttaatcta 420

cgtgggaagg cagc 434

<210> 616
<211> 417
<212> DNA
<213> Glycine max

<400> 616

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tgttgaagta tctcccaggc tcgctgatga cactgaggga accatagaag ctgcaaaatg 120

gcttcataaa gtggttgatc gccccaatgt gtatattaag attcctgcta cagaggcatg 180

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gttaaatgac ctctctagag ttacaagggg ttgcttcttc tttgtcagta gagtggacac 360

tctcattgac aaagcccttg agaaaattgg caccccagag gctcttaatc tacgtgg 417

<210> 617
<211> 328
<212> DNA
<213> Glycine max

<400> 617

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cttgcaagat atgaagctgg ggtagatgct tacttggatg gtcttgaggc atctgggtta 120

aatgacctct ctagagttac aagtgttgcc tctttctttg tcagtagagt ggacactctc 180

attgacaagg cccttgagaa aattggcacc ccagaggctc ttaatctacg tgggaaggca 240

gcagtggccc aagcagcatt ggcttaccag cgtctccgaa ggaaatgttc tggtccaagg 300

tgggaagctc tagttaaaaa tggggcca 328

<210> 618
<211> 290
<212> DNA
<213> Zea mays

<400> 618

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acaaatgttt gtgggccgat tgcgggactg ggcaaggcat cactctggtg acccagagat 120

agatgaagct ttgaagaatg gagaagatgc tgggctttct ttggcgaaga aagtatatgc 180

ctatattcac aggattgggt acaaaacaaa gctgatggcc gctgccatac ggaacaagca 240

ggacgtattt agccttctgg ggattgatta cattattgcc cactgaagat 290

<210> 619
<211> 300
<212> DNA
<213> Zea mays

<400> 619

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aactggcaac tactcttgta attgtcattt ctaagagcgg aggcacacct gaaacccgca 120

atggtctact agaagtacag aaagccttca gagatgcggg gctgcaattc tcgaaacagg 180

gtgttgcaat tactcaagaa aattctctgt tggataacac tgctagaata gagggatggt 240

tagctcggtt tcctatgttt gattgggttg gtggtaggac ttcagaaatg tctgctgtgg 300

<210> 620
<211> 208
<212> DNA
<213> Zea mays

<400> 620

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tcccaactcc ttcctccgga acaagatcga gaccgcactc gacaaaatcc tcgccttctc 120

ccaagatgtc atctctggaa agattctttc cccatctggt cgtttcactt caattctctc 180

tataggaatc ggagggtcag ctttgggc 208

<210> 621
<211> 267
<212> DNA
<213> Zea mays

<400> 621

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actgggttgg tggtaggact tcagaaatgt cagctgttgg tttacttcca gctgcattgc 120

agtgtattga tatcaaggaa atgctatttg gtgcagcttt aatggatgag gaaacccgga 180

acactgtggt taaagcaaat ccagcagcat tgcttgcatt atgttggtat tgggcatcgg 240

aagggatagg caaaaaggat atggttg 267

<210> 622
<211> 258
<212> DNA
<213> Zea mays

<400> 622

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gagggtctgc ttatgggcct caatttgttg ctaaaccact tgcacctgat aaccctccac 120

tgaaggtaag atttattgac aacatcgatc ctggtgggat tgatcatcaa attgctcaac 180

taggatctca actggcaact agctactctt gtaattgtca tttctaagaa cacttgaggg 240

aggggaact gctgaagc 258

<210> 623
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<212> DNA
<213> Zea mays

<400> 623

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acgaagcatt aaagatttgg atccagaaac cactctggtg gtggctgtat caaagacatt 120

cacaacagct gaaacaatgt taaatgctcg aactcctaag gagtggatcg tttcttctct 180

tgggacacag gctgttgcca tacatatgat tgctgtcagc actaatctt 229

<210> 624
<211> 337
<212> DNA
<213> Zea mays

<400> 624

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gaattaactc atttgaccca tggggagtgg acctagggaa gtcactcgct tctcaagtga 120

ggaaacagct gcatggaacc cggatggaag gaaagcctgt tgagggtttt aaccacagca 180

cttcaagttt gcttgcacga tatcttgctg tcaagccatc caccccgtat gatactaccg 240

tgctgccgaa ggtgtaatta ctcagttgtt tttgacatgc caattgctga gctctgactt 300

ggcaaggttg agcataagtc tttcttcatt ttgggag 337

<210> 625
<211> 248
<212> DNA
<213> Zea mays

<400> 625

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aacactgcta gaatagaggg atggttagct cggtttccta tgtttgattg ggttggtggt 120

aggacttcag aaatgtctgc tgtgggttta cttccagctg cattgcaggg tattgatatc 180

aaggaaatgc tagctggtgc agctttaatg gatgaagaaa cccggaacac tgtggttaaa 240

gaaaatcc 248

<210> 626
<211> 288
<212> DNA
<213> Zea mays

<400> 626

gttgcaatca ctcaagaaaa ttctctgttg gataacactg ccagaataga gggatggtta 60

gctcggtttc ctatgtttga ctgggttggt ggtaggactt cagaaatgtc agctgttggt 120

ttacttccag ctgcattgca gggtattgat atcaaggaaa tgctagttgg tgcagcttta 180

atggatgagg aaacccggaa cactgtggta tcacattatt aataacacgg acaacttgca 240

gtgatggcat gattatctat atgtgtcatg tcaacatgtt tatctttt 288

<210> 627
<211> 243
<212> DNA
<213> Zea mays

<400> 627

tgatgcgggt ctgcaattct cgaaacaggg tgttgcaatc actcaagaaa attctctgtt 60

ggataacact gccagaatag agggatggtt agctcggttt cctatgtttg actgggttgg 120

tggtaggact tcagaaatgt cagctgttgg tttacttcca gctgcattgc agggtattga 180

tatcaaggaa atgctagttg gtgcagcttt aatggatgag gaaacccgga acactgtggt 240

taa 243

<210> 628
<211> 235
<212> DNA
<213> Zea mays

<400> 628

cagaaagcct tcagagatgc agggctgcaa ttctcgaaac agggtgttgc aattactcaa 60

gaaaattctc tgttggataa cactgctaga atagagggat ggttagctcg gtttcctatg 120

tttgattggg ttggtggtag gacttcagaa atgtcagctg tgggtttact tccagctgca 180

ttgcagggta ttgatatcaa ggaaatgcta gctggtgcag ctttaatgga tgagg 235

<210> 629
<211> 296
<212> DNA
<213> Zea mays

<400> 629

cgacagaatc ctcgccttct ctcaagatgt cgtctctgga aagattcttt ccccatctgg 60

tcgtttcact tcaattctct ctataggaat cggagggtca gctttgggcc ctcaatttgt 120

tgctgaggca cttgcgcctg ataaccctcc actgaagata agatttattg acaacaccga 180

tcctgctggg attgatcatc aaattgctca actaggacct gaactggcaa ctactcttgt 240

aattgtcatt tctaagagcg gaggcacacc tgaaacccgc aatgggctac tggaag 296

<210> 630
<211> 228
<212> DNA
<213> Zea mays

<400> 630

gaaagattct ttccccatct ggtcgtttca cttcaattct ctctatagga atcggagggt 60

cagctttggg ccctcaattt gttgccgagg cacttgcacc tgataaccct ccactgaaga 120

taagatttat tgacaacaca gatcctgctg ggattgatca tcaaattgct caactaggac 180

ctgaactggc aactactcgt gaaagtgaca tttctaagag cggcggca 228

<210> 631
<211> 304
<212> DNA
<213> Zea mays

<400> 631

cccacgcgtc cgccgcactc gacagaatcc tcgccttctc tcaagatgtc gtctctggaa 60

agattctttc cccatctggt cgtttcactt caattctctc tataggaatc ggagggtcag 120

ctttgggccc tcaatttgtt gctgaggcac ttgcgcctga taaccctcca ctgaagataa 180

gatttattga caacaccgat cctgctggga ttgatcatca aattgctcaa ctaggacctg 240

aactggcaac tactcttgta attgtcattt ctaagagcgg aggcacacct gaaacccgca 300

atgg 304

<210> 632
<211> 273
<212> DNA
<213> Zea mays

<400> 632

ctttatgcaa atgaccggga gtctatctct gttactgtgc aagaggtaac tcctagagct 60

gttggagcac tgattgcact ttatgaacgt gctgtgggga tttatgcttc tttggtaaat 120

atcaatgcct atcatcagcc tggtgttgag gctgggaaaa aggcagcagg agaagtattg 180

gcccttcaga aaagggttct gactgtatta aaggaggcca tctgcgagaa ccctactgag 240

ccattgactc tagatgaaat tgcagatcgc tgc 273

<210> 633
<211> 322
<212> DNA
<213> Zea mays

<400> 633

ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt tggcccttca 60

gaaaagggtg ctgactgtat taaatgaggc aacctgcaag gacccttgtg agccattgac 120

tatagatgaa attgcagatc gctgccattg ccctgaagat attgagatga tctacaaaat 180

agtccagcac atggctgcta acgacagagc aatcatagca gaaggcagct gtggctctcc 240

tcgcagcgtt aaggtgtacc tcggtgaatg caatgtagac gaagacttgc aggccgcgta 300

ggttccgagc ctggatccgt gt 322

<210> 634
<211> 264
<212> DNA
<213> Zea mays

<400> 634

atcaacctgg tgttgaggct gggaaaaagg cagcaggaga agtgttggcc cttcagaaaa 60

gggtgctgac tgtattaaat gaggcaacct gcaaggaccc ttgtgagcca ttgactatag 120

atgaaattgc agatcgctgc cattgccctg aagatattga gatgatctac aaaatagtcc 180

agcacatggc tgctaacgac agagcaatca tagcagaagg cagctgtggc tctcctcgca 240

gcgttaaggt gtacctcggt gaat 264

<210> 635
<211> 310
<212> DNA
<213> Zea mays

<400> 635

cggacgcgtg gtttgagtag atatttgcaa caacttgtca tggaatctct tggaaaagaa 60

ttcgacctgg atggcaaccg tgttaatcaa gggctaactg tatatggtaa caaaggaagc 120

actgaccagc atgcttacat tcagcagctg agagaaggtg tacaaaactt ctttgttacg 180

tttattgagg tcttgcgtga caggcctgct ggacatgatt ggagacttga acctggagtc 240

acgtgtggtg actatttgtt tgggatgttg cagggaaccc gttctgctct ttatgcaaat 300

gaccgggagt 310

<210> 636
<211> 295
<212> DNA
<213> Zea mays

<400> 636

gttgcttttg agtagatatt tgcaacaact tgtcatggaa tctcttggga aagaatttga 60

tctggatggc aaccgggtaa atcaagggct atctgtatat ggaaacaaag gaagtactga 120

ccagcacgct tacattcagc agctgagaga aggtgtacac aacttctttg ttacttttat 180

cgaggtcttg cgtgacaggc ctgctggtca tgattgggag cttgaacctg gagtcacatg 240

tggtgactat ttgtttggga tgttgcaggg aacacgttct gctctttatg caaat 295

<210> 637
<211> 293
<212> DNA
<213> Zea mays

<400> 637

acaaaggaag cactgaccag cacgcttaca ttcagcagct gagagaaggt gtacacaact 60

tctttgttac ttttatcgag gtcttgcgtg acaggcctgc tggtcatgat tgggagcttg 120

aacctggagt cacatgtggt gactatttgt ttaggatgtt gcagggaaca cgttctgctc 180

tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca agaggtaact cctagagctg 240

ttggagcact ggttgcactt tatgaacgtg ctgtggggct ttatgcttct ttg 293

<210> 638
<211> 281
<212> DNA
<213> Zea mays

<400> 638

ggtgtacaaa acttctttgt tacgtttatt gaggtcttgc gtgacaggcc tgctggacat 60

gattgggagc ttgaacctgg agtcacgtgt ggtgactatt tgtttgggat gttgcaggga 120

acccgttctg ctctttatgc aaatgaccgg gagtctatct ctgttactgt gcaagaggta 180

actcctagag ctgttggagc actgattgca ctttatgaac gtgctgtggg gatttatgct 240

tctttggtaa atatcaatgc ctatcatcag cctggtgttg a 281

<210> 639
<211> 263
<212> DNA
<213> Zea mays

<400> 639

ccggaacact gtggttaaag aaaatccagc agcattgctt gcattatgtt ggtattgggc 60

atcagaaggg ataggcaata aggatatggt tgtacttcct tacaaggata gtttgttgct 120

tttgagtaga tatttgcaac aacttgtcat ggaatctctt gggaaagaat ttgatctgga 180

tggcaaccgg gtaaatcaag ggctatctgt atatggaaac aaaggaagca ctgaccagca 240

cgcttacatt cagcagctga gag 263

<210> 640
<211> 300
<212> DNA
<213> Zea mays

<400> 640

cggacgcgtg gtgctagctg gtgcagcttt aatggatgag gaaacccgga acactgtggt 60

taaagaaaat ccagcagcat tgcttgcatt atgttgctat tgggcatcag aagggatagg 120

caataaggat atggttgtac ttccttacaa ggatagtttg ttgcttttga gtagatattt 180

gcaacaactt gtcatggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa 240

tcaagggcta tctgtatatg gaaacaaagg aagcactgac cagcacgctt acattcagca 300

<210> 641
<211> 313
<212> DNA
<213> Zea mays

<400> 641

cccacgcgtc cgcccacgcg tccggggtat tgatatcaag gaaatgctag ctggtgcagc 60

tttaatggat gaagaaaccc ggaacactgt ggttaaagaa aatccagcag cattgcttgc 120

attatgttgg tattgggcat cagaagggat aggcaataag gatatggttg tacttcctta 180

caaggatagt ttgttgcttt tgagtagata tttgcaacaa cttgtcatgg aatctcttgg 240

gaaagaattt gatctggatg gcaaccgggt aaatcaaggg ctatctgtat atggaaacaa 300

aggaagtact gac 313

<210> 642
<211> 298
<212> DNA
<213> Zea mays

<400> 642

gatagtttgt tacttttgag tagatatttg cctatccctt ccgatgccca ataccagcag 60

cattgcttgc attatgttgg tattgggcat cggaagggat aggcaaaaag gatatggttg 120

tgcttcctta taaggatagt ttgttacttt tgagtagata tttgcaacaa cttgtcatgg 180

gatctcttgg aaaagaattc gacctggatg gcaaccgtgt taaacaaggg ctaactgtat 240

atggtaacaa aggaagcact gaccagcatg cttacattca gcagctgaga gaaggtgt 298

<210> 643
<211> 274
<212> DNA
<213> Zea mays

<400> 643

gaggtcttgc gtgacaggcc tgctggtcat gattgggagc ttgaacctgg agtcacgtgt 60

ggtgactatt tgtttgggat gttgcaggga acccgttctg ctctttatgc aaatgaccgg 120

gagtctatct ctgttacgtg caagaggtaa ctcctagagc tgttggagca ctgatttcac 180

tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc 240

ctggtgttga ggctgggaaa aaggcagcag gaga 274

<210> 644
<211> 284
<212> DNA
<213> Zea mays

<400> 644

cagctgcatt gcagggtatt gatatcaagg aaatgctagc tggtgcagct ttaatggatg 60

aggaaacccg gaacactgtg gttaaagaaa atccagcagc attgcttgca ttatgttggt 120

attgggcatc agaagggata ggcaataagg atatggttgt acttccttac aaggatagtt 180

tgttgctttt gagtagatat ttgcaacaac ttgtcatgga atctcttggg aaagaatttg 240

atctggatgg caaccgggta aatcaaggct atctgtatat ggaa 284

<210> 645
<211> 306
<212> DNA
<213> Zea mays

<400> 645

cggacgcgtg gtgctagctg gtgcagcttt aatggatgag gaaacccgga acactgtggt 60

taaagaaaat ccagcagcat tgcttgcatt atactggtat tgggcatcag aagggatagg 120

caataaggat atggttgtac ttccttacaa ggatagtttg ttgcttttga gtagatattt 180

gcaacaactt gtcatggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa 240

tcaagggcta tctgtatatg gaaacaaagg aagcactgac cagcacgctt acattcagca 300

gctgag 306

<210> 646
<211> 271
<212> DNA
<213> Zea mays

<400> 646

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgag gtcttgcgtg acaggcctgc 60

tggtcatgaa tgggagcttg aacctggagt cacatgtggt gactatttgt ttgggatgtt 120

gcagggaaca cgttctgctc tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca 180

agaggtaact cctagagctg ttggagcact ggttgcactt tatgaacgtg ctgtggggct 240

ttatgcttct ttggtaaata tcaatgccta t 271

<210> 647
<211> 228
<212> DNA
<213> Zea mays

<400> 647

cggacgcgtg ggggtgtaca caacttcttt gttacgttta ttgaggtctt gcgtgacagg 60

cctgctggtc atgattggga gcttgaacct ggagtcacgt gtggtgacta tttgtttggg 120

atgttgcagg gaacccgttc tgctctttat gcaaatgacc gggagtctat ctctgttact 180

gtgcaagagg taactcctag agctgttgga gcactgattg cactttat 228

<210> 648
<211> 275
<212> DNA
<213> Zea mays

<400> 648

tggtgtacac aacttctttg ttacttttat cgaggtcttg cgtgacaggc ctgctggtca 60

tgattgggag cttgaacctg gagtcacatg tggtgactat ttgtttggga tgttgcaggg 120

aacacgttct gctctttatg caaatgaccg tgaatctatc tctgttactg tgcaagaggt 180

aactcctaga gctgttggag cactggttgc actttatgaa cgtgctgtgg ggctttatgc 240

ttcttggtaa atatcaatgc tatcatcaac tggtg 275

<210> 649
<211> 203
<212> DNA
<213> Zea mays

<400> 649

tgttgtactt ccttacaagg atagtttgtt gcttttgagt agatatttgc aacaacttgt 60

catggaatct cttgggaaag aatttgatct ggatggcaac cgggtaaatc aagggctatc 120

tgtatatgga aacaaaggaa gcactgacca gcacgcttac attcagcagc tgagagaagg 180

tgacacaact tctttgttac ttt 203

<210> 650
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 650

gttgtcaggg tattgatatc aaggaaatgc tagctggtgc agctttaatg gatgaagaaa 60

cccggaacac tgtggttaaa gaaaatccag cagcattgct tgcattatgt tggtattggg 120

catcagaagg gataggcaat aaggatatgg ntgtacttcc ttacaaggat agtttgttgc 180

ttttgagtag atatttgcaa caacttgtca tggaatctct tgggaagaat tgatctggat 240

gcaaccggta aatcaaggct atctgatatg aaacaaagaa gactg 285

<210> 651
<211> 267
<212> DNA
<213> Zea mays

<400> 651

tatcttgctg tcaagccatc caccccgtat gatactaccg tgctgccgaa gtgtaattac 60

tcagttgttt ttgacatgcc aattgctgag ttctgacttg gcaaggttga gcataagtct 120

ttcttcattt tgggagttat cacagagcca gtttggcagt gctgtagttt tggttttacc 180

tactctttgt agaagaaaag tgaagagtgg atattatgga acaaaatata tacctacggc 240

agcacgcagc atgatgaaac atattta 267

<210> 652
<211> 240
<212> DNA
<213> Zea mays

<400> 652

gtctcccccg accggcgatc gctatcgact tgtagcggaa gccatggcgt cggcagcgct 60

aatctgcggc acggagcagt ggaaggccct ccaggcgcac gtcggcgcga ttcagaagac 120

gcacctgcgc gacctgatgg ccgacgccga ccgatgcaag gcaatgacgg ctgagtatga 180

agggatcttt ctggattact cgagacagca ggcgactggt gaaacatgga gaagccctta 240

<210> 653
<211> 292
<212> DNA
<213> Zea mays

<400> 653

caaaatccgg aggaactccc aggaggcgaa aagcagatcc gtctcccccg agccccgacc 60

ggcgatcgct atcgacttgt agcggaagcc atggcgtcgg cagcgctaat ctgcggcacg 120

gagcagtgga aggccctcca ggcgcacgtc ggcgcgattc agaagacgca cctgcgcgac 180

ctgatggccg acgccgaccg atgcaaggca atgacggctg agtatgaagg gatctttctg 240

gattactcga gacagcaggc gactggtgaa acatggagaa gctcttaaat tg 292

<210> 654
<211> 320
<212> DNA
<213> Zea mays

<400> 654

ggcaagcaaa cgagcggcgg gacggctagc ccgcaataca aaatccggag gaactcccag 60

gaggcgaaaa gcagatccgt ctcccccgag ccccgaccgg cgatcgctat cgacttgtag 120

cggaagccat ggcgtcggca gcgctaatct gcggcacgga gcagtggaag gccctccagg 180

cgcacgtcgg cgcgattcag aagacgcacc tgcgcgacct gatggccgac gccgaccgat 240

gcaaggcaat gacggctgag tatgaaggga tctttctgga ttactcgaga cagcaggcga 300

ctggtgaaac catggagaag 320

<210> 655
<211> 278
<212> DNA
<213> Zea mays

<400> 655

caccgtcttc cggccgtcca ccgtttccag cacacagggt aaaggcaagc aaacgagcgt 60

ggggacggct agcccgcaat acaaaatccg gaggaactct caggaggcga aaagcagatc 120

tgtctccccc gaccggcgat cgctatcgac ttgtagcgga agccatggcg tcggcagcgc 180

taatctgcgg cacggagcag tggaaggcac tccaggcgca cgtcggcgcg attcagaaga 240

cgcaactgcg cgacctgatg gccgacgccg accgatgc 278

<210> 656
<211> 105
<212> DNA
<213> Zea mays

<400> 656

caaaatccgg aggaactccc aggaggcgaa aagcagatcc gtctcccccg agccccgacc 60

ggcgatcgct atcgacttgt agcggaagcc atggcgtcgg cagcg 105

<210> 657
<211> 267
<212> DNA
<213> Zea mays

<400> 657

acccgatcaa gctgtgggag cgctacgtcg agtggctcta ccagcacaag gagctcggca 60

tcttcgtcga cgtcagccgg atggggttca cggaggagtt cctgcggcag atggagccgc 120

ggatgcagca ggccttcgtc gacatgcggg agctcgagaa gggcgccatc gccaaccccg 180

acgagggtcg catggtgggc cactactggc tccgcgaccc ggccctcgct cccaactcct 240

tcctccggaa caagatcgag accgcac 267

<210> 658
<211> 325
<212> DNA
<213> Zea mays

<400> 658

tgccatattc tcaggcactt gagaagttgg caccacatat acagcagctt agcatggaga 60

gtaacgggaa gggtgtttcc attgatggcg cccaactttc ctttgagaca ggtgaaattg 120

attttggtga acctcgaact aatggccagc acagcttcta tcaattaatc catcagggaa 180

gggttatccc ttgcgacttt attggtgttg ttaaaagtca gcagcctgtt tacttgaaag 240

gggaaactgt gagtaatcat gatgagctta tgtccaattt ctttgcccaa cctgatgctc 300

ttgcttatgg aaagactcct gaaca 325

<210> 659
<211> 316
<212> DNA
<213> Zea mays

<400> 659

tccagctagg gcaatattgc catattctca ggcacttgag aagttggcac cacatataca 60

gcagcttagc atggagagta acgggaaggg tgtttccatt gatggcgccc aactttcctt 120

tgagacaagt gaaattgatt ttggtgaacc tggaactaat ggccagcaca gcttctatca 180

attaatccat cagggaaggg ttatcccttg cgactttatt ggtgttgtta aaagtcagca 240

gcctgtttac ttgaaagggg aaactgtgag taatcatgat gagcttatgt ccaatttctt 300

tgcccaacct gatgct 316

<210> 660
<211> 300
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 660

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tcgtttcttc tcttgggcca caggctgttg ccaaacatat gattgctgtc agcactaatc 120

ttaagcttgt gaaggagttt ggaattgacc caaacaatgc ttttgccttt tgggactggg 180

ttggcggccg ttatagtgtt tgcagtgctg ttggcgttct gccattatct cttcagtatg 240

gctttccaat tgtccagaaa tttttggagg gagcttccag tatcgacaac cacttctact 300

<210> 661
<211> 334
<212> DNA
<213> Zea mays

<400> 661

ctcatgatga gcttatgtcc aatttctttg cccaacctga tgctcttgct tatggaaaga 60

ctcctgaaca gttgcacagt gagaaagttc cagataatct tatccctcat aagactttta 120

agggcaaccg gccatcacta agtttgcttc tgcctacact atctgcatat gaggttggac 180

agcttttatc catctatgag caccggattg cagttcaggg cttcatatgg ggaattaact 240

catttgacca ctagggagtg gagctaggga agtcactcgc ttctcaagtg aggaaacagc 300

tgcatggaac ccggatggaa ggacacctgt tgag 334

<210> 662
<211> 279
<212> DNA
<213> Zea mays

<400> 662

ggtgaacctg gaactaatgg ccagcacagc ttctatcaat taatccatca gggaagggtt 60

atcccttgcg actttattgg tgttgttaaa agtcagcagc ctgtttactt gaaaggggaa 120

actgtgagta atcatgatga gcttatgtcc aatttctttg cccaacctga tgctcttgct 180

tatggaaaga ctcctgaaca gttgcacagt gagaaagttc cagaaaatct tatccctcat 240

aagactttta agggcaaccg gccatcacta agtttgctt 279

<210> 663
<211> 274
<212> DNA
<213> Zea mays

<400> 663

tgcaaatgtt gatccagttg acgttgcacg aagcattaaa gatttggatc cagaaaccac 60

tctggtggtg gttgtatcaa agacattcac aacagcggaa acaatgttaa atgctcgaac 120

tcttaaggag tggatcgttt cttctcttgg gccacaggct gttgccaaac atatgattgc 180

tgtcagcact aatcttaagc ttgtgaagga gtttggaatt gacccaaaca atgcttttgc 240

cttttgggac tgggttggcg gccgttatag tgtt 274

<210> 664
<211> 283
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 664

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gtttggaatt ganccaaaca atgcttntgc ctnttgggac tgggttggcg gccgttatag 120

tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggcttgc caattgtcca 180

gaaatttttg gagggagctt ccagcattga caaccactnc tactcatctt catgtgagaa 240

naatataccn gtacntcttg gtgctgagtg tgtggaatgt ttc 283

<210> 665
<211> 269
<212> DNA
<213> Zea mays

<400> 665

gccacaggct gttgccaaac atatgattgc tgtcagcact aatcttaagc ttgtgaagga 60

gtttggaatt gacccaaaca atgcttttgc cttttgggac tgggttggcg gccgttatag 120

tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggctttc caattgtcca 180

gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt catttgagaa 240

aaatataccg tacttcttgg tttgctgag 269

<210> 666
<211> 299
<212> DNA
<213> Zea mays

<400> 666

agaagtggat catgggttgg agcaactgga aaaccgttga caaatgttgt gtcagttgga 60

ataggtggta gctttcttgg ccctctattt gtgcatactg cactccagac cgatccagaa 120

gcagcagaat gtgcaaaagg ccggcaactg agattccttg caaatgttga tccagttgac 180

gttgcacgaa gcattaaaga tttggatcca gaaaccactc tggtggtggt tgtatcaaag 240

acattcacaa cagctgaaac aatgttaaat gctcgaactc ttaaggagtg gatcgtttc 299

<210> 667
<211> 276
<212> DNA
<213> Zea mays

<400> 667

ttggaattga cccaaacaat gcttttgcct tttgggactg ggttggcggc cgttatagtg 60

tttgcagtgc tgttggcgtt ctgccattat ctcttcagta tggctttcca attgtccaga 120

aatttttgga gggagcttcc agcattgaca accacttcta ctcatcttca tttgagaaaa 180

atatacctgt acttcttggt ttgctgagtg tgtggaatgt tcatttcttg gttatccagc 240

tagggcaata tgccatatct caggcacttg agaagt 276

<210> 668
<211> 255
<212> DNA
<213> Zea mays

<400> 668

ctccaagaga tgcagtcata aacagtgatg gggtgactgt ggtccctgag gtttggagtg 60

ttaaagataa aatcaagcag ttttcagaga cttttagaag tggatcatgg gttggagcaa 120

ctggaaaacc gttgacaaat gttgtgtcgg ttggaatagg tggtagcttt cttggccctc 180

tatttgtgca tactgcactc cagaccgatc cagaagcagc agaatgtgca aaaggccggc 240

aactgagatt ccttg 255

<210> 669
<211> 233
<212> DNA
<213> Zea mays

<400> 669

gcacgaggtt ctgccattat ctcttcagta tggctttcca attgtccaga aatttttgga 60

gggagcttcc agcattgaca accacttcta ctcatcttca tttgagagaa atatacctgt 120

acttcttggt ttgctgagtg tgtggaatgt ttcatttctt ggttatccag ctagggcaat 180

attgtcatat tctcaggcac ttgagaagtt ggcaccacat atacagcagc tta 233

<210> 670
<211> 191
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 670

aatttctttg cccaacctga tgctcttgct tatggaaaga ctcctgaaca gttgcacagt 60

gagaaagttc cagaaaatct tatccctcat aagactttta agggcaaccg gccatcacta 120

agtttgcttc tgcctacact atccgcatat gaggtggaca gttttaancc tctatngggc 180

ncggtttnan t 191

<210> 671
<211> 115
<212> DNA
<213> Zea mays

<400> 671

gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat gcagaagcag 60

cagaatgtgc aaaaggccgg caactgagat tccttgcaaa tgttgatcca gttga 115

<210> 672
<211> 113
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 672

ggagtttgga attgacccaa acaatgcttt tgccttttgg gactgggttg gcggccgtta 60

tagtgtttgc agtgctgttg gcgntctgcc attatctctt cagtatggct ttc 113

<210> 673
<211> 122
<212> DNA

<213> Zea mays

<400> 673

tatcttatcc ctcataagac ttttaagggc aaccggccat cactaagttt gcttctgcct 60

acactatctg catacgaggt tacgacagct tttatccatc tatgagcacc ggattgcagt 120

tc 122

<210> 674
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 674

agtctatctc tgttactgtg caagaggtaa ctcctanagc tgttggagna ctgattgcac 60

tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc 120

ctggtgttga ggctgggaaa aaggcancan gagaagtatt ggcccttcag aaaagggttc 180

tgactgtatt aaaggaggcc atctgcnaga accctactga gccattgact ctagatgaaa 240

ttgcagatcg ctgacattgc cctgaagata ttganatgat ctacanaata atccancaca 300

tggcttctaa cgacagatca cttatagcag aaggcatctg cngctttctt ngcagtgtta 360

aggtgtacct nggtgaaatg caattttgga ccnaantatg caggccggga tagattctgn 420

gtcnggancn aagtaacatt ntt 443

<210> 675
<211> 420
<212> DNA
<213> Zea mays

<400> 675

ctcttgggaa agaatttgat ctggatggca accgggtaaa tcaagggcta tgtgtagatg 60

gaaacaaagg aagcactgac cagcacgctt acattcagca gctgagagaa ggtgtacaca 120

acttctttgt tacttttatc gaggtcttgc gtgacaggcc tgctggtcat gattgggagc 180

ttgaacctgg agtcacatgt ggtgactatt tgtttgggat gttgcaggga acacgttctg 240

ctctttatgc aaatgaccgt gaatctatct ctgttactgt gcaagaggta actcctagag 300

ctgttggagc actggttgca ctttatgaac gtgctgtggg gctttatgct tctttggtaa 360

atatcaatgc ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt 420

<210> 676
<211> 349
<212> DNA
<213> Zea mays

<400> 676

tgcggtcaag caatcaaccc cgtatgatac aaccgtgctg ccgaaggtgt aattacccag 60

ttgtttttga catgccaatt gctgagttct gacttggcaa ggttgagcat aagtctttct 120

tcatttggga gttatcacag agccagtttg gcagtgctgt agttttggtt ttacctactc 180

tttgtagaag aaaagtgaag agtggatatt atggaacaaa atatatacct acggcagcac 240

gcagcatgat gaaacatatt taaaaaattt gggtgctcta ccacatgccc gtggaataaa 300

acggatgtaa actcagtgca aaaaaaaaaa aaaaaaaaaa aaacaaaaa 349

<210> 677
<211> 376
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 677

aacgagcggc gggacggcta gcccgcaata caaaatccgg aggaactccc aggaggcgaa 60

aagcagatcc gtctcccccg agccccgacc ggcgatcgct atcgacttgt agcggaagcc 120

atggcgtcgg cagcgctaat ctgcggcacg gagcagtgga aggccctcca ggcgcacgtc 180

ggcgcgattc agaagacgca cctgcgcgac ctgatggccg acgccgaccg atgcaaggca 240

atgacggctg agtatgaagg gatctttctg gattactcga gacagcaggc gactggtgaa 300

accctggaga agctccttaa atgggctgac gctgcgaagc tcaaggagaa ngatgagaag 360

atgtttaaag gtgaaa 376

<210> 678
<211> 451
<212> DNA
<213> Zea mays

<400> 678

ccgtatatag tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggctttc 60

caattgtcca gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt 120

catttgagaa aaatatacct gtacttcttg gtttgctgag tgtgtggaat gtttcatttc 180

ttggttatcc agctagggca atattgccat attctcaggc acttgagaag ttggcaccac 240

atatacagca gcttagcatg gagagtaacg ggaagggtgt ttccattgat ggcgcccaac 300

tttcctttga gacaggtgaa attgattttg gtgaacctgg aactaatggc cagcacagct 360

tctatcaatt aatccatcaa ggaagggtta tcccttgcga ctttattggt gttgttaaaa 420

gtcagcagcc tgtttacttg aaaagggaaa c 451

<210> 679
<211> 453
<212> DNA
<213> Zea mays

<400> 679

gtcatgcact ggagacgttg gcactacata tacagcagct tatcatggat agtaacgggg 60

ggggtgtttc cattgatggc gcccaacttt cctttgagac aggtgaaatt gattttggtg 120

aacctggaac taatggccag cacagcttct atcaattaat ccatcaggga agggttatcc 180

cttgcgactt tattggtgtt gttaaaagtc agcagcctgt ttacttgaaa ggggaaactg 240

tgagtaatca tgatgagctt atgtccaatt tctttgccca acctgatgca cttgcttatg 300

gaaagactcc tgaacagttg cacagtgaga aagttccaga aaatcttatc cctcataaga 360

cttttaaggg caaccggcca tcactaagtt tgcttctgcc tacactatcc gcatatgagg 420

ttggacagct tttatccatc tatgagcacc gga 453

<210> 680
<211> 419
<212> DNA
<213> Zea mays

<400> 680

aaaatcaagc agttttcaga gacttttaga agtggatcat gggttggagc aactggaaaa 60

ccgttgacaa atgttgtgtc agttggaata ggtggtagct ttcttggccc tctatttgtg 120

catactgcac tccagaccga tccagaagca gcagaatgtg caaaaggccg gcaactgaga 180

ttccttgcaa atgttgatcc agttgacgtt gcacgaagca ttaaagattt ggatccagaa 240

accactctgg tggtggttgt atcaaagaca ttcacaacag ctgaaacaat gttaaatgct 300

cgaactctta aggagtggat cgtttcttct cttgggccac aggctgttgc caaacatatg 360

attgctgtca gcactaatct taagcttgtg aaggagtttg gaattgaccc aaacaatgc 419

<210> 681
<211> 426
<212> DNA
<213> Zea mays

<400> 681

ctcgcgggcc gacacacgcc tctacatttc ttggttatac agctagggca atattgccat 60

attctcaggc acttgagaag ttggcaccac atatacagca gcttagcatg gagagtaacg 120

ggaagggtgt ttccattgat ggcgcccaac tttcctttga gacaggtgaa attgattttg 180

gtgaacctgg aactaatggc cagcacagct tctatcaatt aatccatcag ggaagggtta 240

tcccttgcga ctttattggt gttgttaaaa gtcagcagcc tgtttacttg aaaggggaaa 300

ctgtgagtaa tcatgatgag cttatgtcca atttctttgc ccaacctgat gctcttgctt 360

atggaaagac tcctgaacag ttgcacagtg agaaagttcc agaaaatctt atccctcata 420

agactt 426

<210> 682
<211> 323
<212> DNA
<213> Zea mays

<400> 682

gcgaagctca aggagaagat tgagaagatg tttaaaggtg aaaagataaa tagcacagag 60

aacaggtcag tgcttcatgt agctctgagg gctccaagag atgcagtcat aaacagtgat 120

ggggtgaatg tggtccctga ggttcggagt gttaaagata aaatcaagca gttttcagag 180

acttttagaa gtggatcatg ggttggagca actggaaaac cgttgacaaa tgttgtgtcg 240

gttggaatag gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat 300

ccagaagcag cagaatgtgc aaa 323

<210> 683

<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 683

ccaaaactga gtctcattac aaatgtngat cnanttgacg ttgcacnaan cattaaagat 60

ttggntccag aaaccacccn ggtggtggtt gtancaaaga cattcacaac agcggaaaca 120

atgttaaatg ctcgaactct taaggagtgg atcgtttctt ctcttgggcc acaggctgtt 180

gccaaacata tgattgctgt cagcactaat cttaagcttg tgaaggagtt tggaattgac 240

ccaaacaatg cttttgcctt ttgggactgg gttggcggcc gttatagtgt ttgcagtgct 300

gttggcgttc tgccattact cttcagtatg gctttccaat tgtccagaaa tttttggagg 360

gaacttccag ncattgacaa acaacttcna ntcnncctnc attttgagaa aaatatacct 420

gt 422

<210> 684
<211> 122
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 684

ggtgagtaac catgatgagc taatgtccaa ctattttgca cagtctgatg cccttgcata 60

tnnnaagaca gcagagcagc tgcnaaaggn caatgtttcc ccgcacctta ttccacacaa 120

ga 122

<210> 685
<211> 234
<212> DNA
<213> Glycine max

<400> 685

tgataatcct ccactcaaga taacatacat ggacaacacg gatcctgctg gaattgatca 60

tcagattgca caacttgggc ctgagctagc ttcaacactt gtgattgtga tatcaaagag 120

tggaggtact cctgagacca gaaatggttt attggaagtg cagaaggcct ttcgtgaagc 180

aggcttggat tttcctaaac agggtgttgc tataacacaa gaaaattctt tgtt 234

<210> 686
<211> 205
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 686

ttcctatgtt tgatnggnnn ggaggtagaa cgtcagnnat gtctgcagtt ggcctgcttc 60

cagcagccct tccagggatt ganatnanag aaatgcttgc cggtgcatca ttgatggatg 120

angctaanag gagtactgtg nnaaggaata accctgcagc tctgctggct ttatgttggt 180

attgggctac agatggtgna ggatc 205

<210> 687
<211> 223
<212> DNA
<213> Glycine max

<400> 687

tgcagggcgt tgctataact caagaaaatt ctttgctgga taacactgca agaattgagg 60

gttggttagc tagatttcca atgtttgact gggtgggagg tagaacatca gagatgtctg 120

cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctggtg 180

cagcattaat ggatgaggcg aataggagta ctgtgataag gaa 223

<210> 688
<211> 218
<212> DNA
<213> Glycine max

<400> 688

tgcagggcgt tgctataact caagaaaatt ctttgctgga taagactgca agaattgacg 60

gttggttagc tagatttcca atgtttgact gggtgggagg tagaacatca gagatgtctg 120

cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctggtg 180

cagcattaat ggatgaggcg aataggagta ctgtgata 218

<210> 689
<211> 274
<212> DNA
<213> Glycine max

<400> 689

gtgctacgtg atagacctcc tggtcatgat tgggaacttg aacctggtgt ccacatgcgg 60

tgactacttg tttggtatgc tacagggaac aagatcagct ctgtatgcca ataaccgaga 120

gtccatcaca gttactgtac aagaagtgac acctagaaca gttggtgctc ttattgcact 180

ctatgaacga gcagtaggaa tttatgcctc ccttgtcaac ataaatgctt atcatcaacc 240

aggtgtggaa gctggtaaaa aagcagcagg tgaa 274

<210> 690
<211> 257
<212> DNA
<213> Glycine max

<400> 690

aacaattgag ggaaggtgta cacaatttct ttgtaacatt cattgaggtg ctacgtgata 60

gacctcctgg tcatgattgc gaacttgaac ctggtgtcac atgcggtgac tacttgtttg 120

gtatgctaca gggaacaaga tcagctctgt atgccaataa ccgagagtcc atcacagtta 180

ctgtacaaga agtgacacct agaactgttg gtgctcttat tgcactctat gaacgagcag 240

taggaattta tgcctcc 257

<210> 691
<211> 251
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 691

gattgggaac ttgaacctgg tgtcacatgt ggtgactact tgtttggtat gctacaggga 60

acaaggtcgg ctttgtatgc caataaccga gagtccatca cagttactgt acaagaaggg 120

acaccaagaa cagttggtgc tcttattggg ctctatgaac gagcagtagg aatttatgcc 180

tcccctgtca acataaatgc ttatctnaac ctgcgtgtgg aagntgacga natnagcagc 240

agngaagtac t 251

<210> 692
<211> 245
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 692

atcctgcanc tttgcnggct ttatgttggt attgggctac agatggtgta ngatcaaaag 60

atatggttat ccttccatat aaggacagct nganattatn tagtagatac ttgcaacagt 120

nggtcatgga atctctaggc aaggagtttg actgaatggt aatcgggtta atcaaggaat 180

tagtgtctat ggaaataaag gaagcacaga tcagcatgcc tacatccaac aactgaggga 240

aggtg 245

<210> 693
<211> 270
<212> DNA
<213> Glycine max

<400> 693

cagcatgcct acattcagca actgagggaa ggtgtgcaca atttttttgt gacattcatt 60

gaggtgctac gcgatagacc acctggtcat gattgggagc ttgaaccagg tgtcacatgt 120

ggtgactacc tgtttggtat gctacaggga acaaggtcag ccctgtatgc caataaccgt 180

gaatccatca ctgtcacagt gcaagaagtg acacccagat cagttggtgc ccttgtagcc 240

ctttatgaac gggccgttgg aatatatgct 270

<210> 694
<211> 259
<212> DNA
<213> Glycine max

<400> 694

ggagtttgac ttgaatggta atcgggttaa tcaaggaatt agtgtctatg gaaataaagg 60

aagcacagat cagcatgcct acattcaaca actgagggaa ggtgtgcaca atttttttgt 120

gacattcatt gaggtgctac gcgatagacc acctggtcat gattgggagc ttgaaccagg 180

tgtcacatgt ggtgactacc tgtttggtat gctacaggga acaaggtcag ccctgtatgc 240

caataaccgt gaatccatc 259

<210> 695
<211> 227

<212> DNA
<213> Glycine max

<400> 695

atagaagtac tgtgttaagg aataaccctg cagctctgct ggctttatgt tggtattggg 60

ctacagatgg tgtaggatcc aaggatatgg ttattcttcc gtacaaggac agcctgttat 120

tattcagtag atacttgcag cagctggtca tggaatctct aggcaaggag tttgacttgg 180

atggtaatcg ggttaatcaa ggaattagtg tctatggaaa caaagga 227

<210> 696
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 696

ttcagggcat tgatattaga gaaatgcttg cnggtgcatc attgatggat gaggctaata 60

gaagtactgt gttaaggaat aaccctgcag ctntgctggc ttangnaagg tattgggcta 120

cagatggtgt aggaccaagg anatggttat tcttccgtac aaggacagcc tngtattatt 180

cagtagatac ntgcagcagc tggtcatgga atctctaggc aaggagtttg acttggatgg 240

taatcgggtt aatcaaggaa tag 263

<210> 697
<211> 266
<212> DNA
<213> Glycine max

<400> 697

gcgcgatcgc gaatcccgat gagagtcgca tggtgggaca ctattggctg agggacccta 60

agcgtgcgcc caactcgttc cttaaaacgc agattgagaa cactctcgac gctgtttgca 120

agttcgctaa cgacgtcgtt agtggtaaga ttaagcctcc ttcgtctccg gagggtcgat 180

ttactcaaat attgtctgtg ggaattggag gttctgctct tggaccacag tttgttgcag 240

aagcattggc acctgataat cctcca 266

<210> 698
<211> 398
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 698

gaataaatgg ttaaggcaaa aaggattacg gtgataagga ataatcctgc acctttgctg 60

gctttatgtt ggtattgggc tacagatggt gtaggatcaa aagatatggt tatccttcca 120

tataaggaca gcttgttatt atttagtaga tacttgcaac agttggtcat ggaatctcta 180

agcaaggagt ttgacttgaa tggtaatcgg gttaatcaag gaattagtgt ctatggaaat 240

aaaggaagca cagatcagca tgcctacatt cagcaactga nggaaggtgt gcacaatttt 300

tttgtgacat tcattgangt gctacgcgat agaccacctg gtcatgattg ggagcttgaa 360

caagtgtcac atgtggtgac tacctgtttg gtatgcta 398

<210> 699
<211> 362
<212> DNA
<213> Glycine max

<400> 699

gttggagaag ggcgcgatcg cgaatcccga tgagagtcgc atggtgggac actattggct 60

gagggaccct aagcgtgcgc ccaactcgtt ccttaaaacg cagattgaga acactctcga 120

cgctgtttgc aagttcgcta acgacgtcgt tagtggtaag attaagcctc cttcgtctcc 180

ggagggtcga tttactcaaa tattgtctgt gggaattgga agttctgctc ttggaccaca 240

gtttgttgca gaagcattgg cacctgataa tcctccactc aagataagat ttgtggacaa 300

cacggatcct gctggaattg atcatcagat tgcacaactt gggcctgagc tagcttcaac 360

ac 362